

American Owned - ISO 9001 Certified Company



GREENLEAF

INCORPORATED



MANUFACTURER OF LIQUID HANDLING PRODUCTS

BOLTED VALVES 1-2

4 & 6 Bolt Valves - V & VF Series
4 & 6 Bolt Replacement Parts

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TRUE UNION BALL VALVES 5-6

HM QUICK SHUT OFF VALVE 5-6

Ball Valve
Repair Kit & Individual Parts

Gator Lock® 7-12

CAM LEVER COUPLINGS

Original- Series A Series D Series PL
Series B Series E Series CAP
Series C Series F

Spool Adapter
45° F and 90° Series (AL, CL, DL, FL)
Green Arm Couplings
Garden Hose Cams (QVA, QA, QB, QD, QF, QYD)
200-300 Series

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Bulkhead Fittings
Siphon Tube
Combination Hose Nipples (Polypropylene & Steel)
Pin Lug Couplers
Heavy Duty: Nipples, Reducing Nipples, Caps, Plugs,
Hose Menders, Street Elbows, Elbows & Couplings
Line Filters
Strainers (Polypropylene & Steel)
Tank Flanges

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Tee Adapter (Male NPT x barb)
Elbow (barbed)
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Straight Adapter (Female NPT x barb)
Cross (barbed)
Flat Seat Hose Barb

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Elbow (Female NPT)
Coupling (Female NPT)
Plug (Male NPT with hex)
Nipple (Male NPT)
Nipple (reducing)
Tee (Female NPT)
Tee (Female NPT with gauge port)
Street Elbow (Male NPT x Female NPT)

EXPLANATION OF ABBREVIATIONS

P - Polypropylene
HB - Hose Barb
Male NPT - Male Pipe Tapered Thread
Female NPT - Female Pipe Tapered Thread
Male NPS - Male Pipe Straight Thread
Female NPS - Female Pipe Straight Thread
Male GHT - Male Garden Hose Thread 3/4"
Female GHT - Female Garden Hose Thread 3/4"
SPT - Standard Pipe Thread
UN - Unified National (used on nozzle fittings)

GARDEN HOSE FITTINGS 28-30

Adapter (Male GHT x Female NPT) -- Adapter (Male NPT x Female GHT)
Adapter (Male NPT x Male GHT) -- Adapter (Male GHT x Female GHT)
Coupling (Female GHT x Female NPT)
Swivel Cap (Female GHT & Female NPS)
Plug (Male GHT with hex)
Tee Adapter (Male NPT x barb)
Adapter (Male GHT x barb)
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Straight Adapter
Elbow
Cross
Tee

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AD, FT, IS, IDKT, FD, TWIN CAP,
TR, DF, OC

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When ordering fittings, always order by part number. In applicable cases part numbers represent thread size first and barb second.
Example: Part # A3412 fitting would have a 3/4" Male NPT & a 1/2" hose barb.

Teflon® is a registered trademark of the DuPont Company.
Viton® is a registered trademark of DuPont Dow Elastomers.



*Quality, Service & Commitment...
Is Never Compromised.*

MISSION STATEMENT

To meet or exceed our customers needs and expectations today and to anticipate their requirements of tomorrow.

We will accomplish this through continuously improving processes, ongoing employee training, and ongoing market studies to ensure we provide the very best products at the best value..

It is our goal to build a relationship with our suppliers and customers to ensure that quality, service and commitment is never compromised.

PRICING

All prices are subject to change without notice. Orders will be invoiced at current prices on the date shipment is made. All prices are F.O.B. Green Leaf®, Inc.

TERMS

An invoice is a contract in which Green Leaf®, Inc. terms will prevail. Unless otherwise stated, payment terms are 2% 10 days net 30 days, (D.O.I.). Green Leaf® Inc. reserves the right to place a customer on credit hold if deemed necessary. Up to a 5% service charge will be added per month on all past due accounts.

ORDERING

Please order by Green Leaf's® part number.
US Orders: A \$10.00 handling charge will be added to all orders under \$50.00.
International Orders: A \$25.00 processing fee will be added to all orders under \$200.00.

NEW ACCOUNTS

Green Leaf®, Inc. welcomes all new accounts. Green Leaf® will provide a credit application for new customers to sign agreeing to our terms. When opening an account the customer agrees to pay invoices in 30 days, pay up to a 5% service charge monthly on any invoices 31 days or older, and to pay any and all collection agencies, attorney fees and/or court fees necessary to collect on the account.

SHIPPING

Please notify us with your shipping instructions. Freight, air, parcel post or UPS. If no instruction is given, we will send best way. Freight shipments should be specified, via truck or rail, with line preference. A handling/service charge of \$2.00 will be added to all invoices.

SAME DAY SHIPMENTS

Same day shipments will incur a service charge of \$10.00 or 5%, whichever is greater.

WEIGHT VARIANCE

To control the cost of processing your orders, Green Leaf® uses electronic counting scales. It is our policy to have each scale certified for accuracy on a schedule recommended by the scale manufacturer. Electronic scales have an accuracy range that is acceptable by most of our customers. If your policy does not allow for a small overage/underage, please contact our marketing department and advise them that you require 100% accuracy of all quantities. Your account will be marked as hand count only. There is a charge of plus 5% of order value for all orders processed in this manner.

RETURNED GOODS POLICY

Returns must be received within 30 days from shipment and must be approved by Green Leaf®, Inc. A document with our return authorization number (RGA Number) and ship to address will be faxed or mailed to the customer. Any goods returned that do not have this document clearly attached to the outside of the carton will be refused. All returns must be freight prepaid. A 20% minimum restocking fee will be assessed to all returns. Returns will only be accepted if the products are in new and original condition, and contain no markings or labels other than Green Leaf®.

SHORTAGES

Claims must be made within 30 days after receipt of shipment; otherwise order will be considered shipped as ordered.

LOSS OR DAMAGE

In order to expedite your shipment to its destination in good condition, all orders are packed and shipped with care. Green Leaf®, Inc. assumes no responsibility for items lost or damaged in transit. Claims will be made with carriers immediately. The purchaser is responsible for claims on freight collect shipments.

GUARANTEE

Green Leaf®, Inc. warrants all merchandise to be as represented in our catalog. We will replace or make satisfactory adjustment if found otherwise.

USE OF PRODUCTS

Products manufactured by Green Leaf® and illustrated within this catalog are produced using resins that are prime and certifiable in grade. The chemical resistance & physical properties of these resins are available from Green Leaf®'s engineering department. Improper use of these products could result in environmental spills, serious injury or death.

MATERIALS

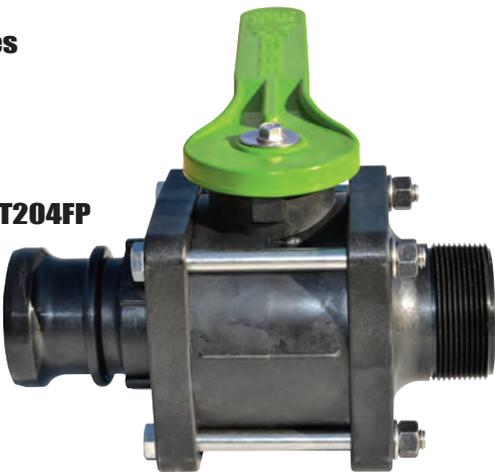
As stated, Green Leaf, Inc®'s stock fittings are always manufactured using quality prime resins; however, in order to insure that we continue to provide the best value to our customers, we reserve the right to change specific grades and/or manufacturers of resin without notice. Please keep this in mind when specifying our stock fittings for use in your applications. Due to the infinite end use possibilities of our products, the customer is responsible for determining the suitability of our products for their application. Data sheets indicating the manufacturer, grade, and properties of current production materials are available and may be requested at anytime. Should your application require a specific material, please contact our sales department for a custom quotation.



6 Bolt Series



VF204FP



VFMT204FP

- Stainless Steel Bolts
- Precision molded in polypropylene.
- Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the Teflon® seats for smooth operation. The valve opens and closes with little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Viton® "O" rings.
- Teflon® self-lubricating stem bushings and seats cannot stick or bind.
- 4 Bolt – Maximum operating pressure 150 PSI@ 70°F. 75 PSI@ 150°F.
- V 204 FP – Maximum operating pressure 125 PSI@ 70°F. 75 PSI@ 150°F.
- 6 Bolt – Maximum operating pressure 100 PSI@ 70°F. 75 PSI@ 150°F.

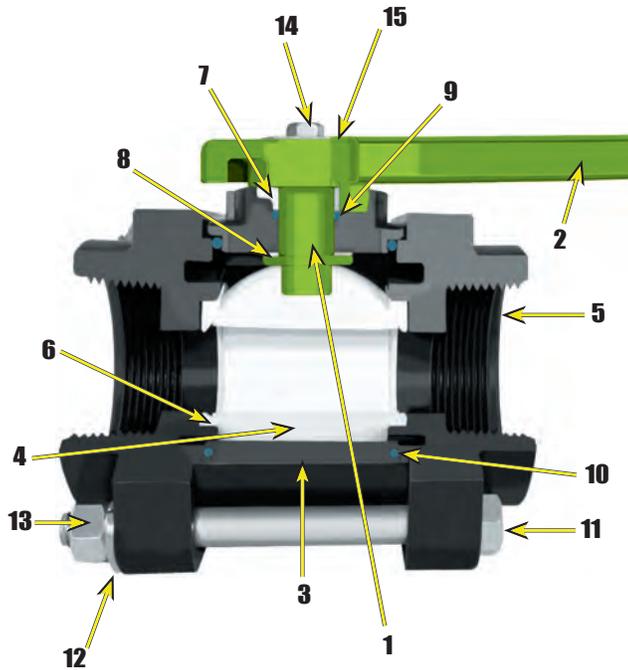
Four Bolt Valves

PART #	DESCRIPTION	MAXIMUM PSI	OPENING THRU BALL	PRICE ea.	CTN. QTY
V125FP	1 1/4" Full Port	150 psi @ 70° F	1 1/2"	\$79.84	12
V150FP	1 1/2" Full Port	150 psi @ 70° F	1 1/2"	\$79.84	12
V200	2" Standard Port	150 psi @ 70° F	1 1/2"	\$79.84	12
V204FP	2" Female Full Port	125 psi @ 70° F	2"	\$92.93	6
VF204FP	2" Female NPT x 2" Male Adapter, Full Port	125 psi @ 70° F	2"	\$94.59	6
VFMT204FP	2" Male NPT x 2" Male Adapter, Full Port	125 psi @ 70° F	2"	\$100.93	6

Six Bolt Valves

PART #	DESCRIPTION	MAXIMUM PSI	OPENING THRU BALL	PRICE ea.	CTN. QTY
V200FP	2" Full Port	150 psi @ 70° F	2"	\$114.97	6
V300	3" Standard Port	100 psi @ 70° F	2 1/2"	\$168.85	6
V300FP	3" Full Port	100 psi @ 70° F	3"	\$248.99	6

Replacement Parts: 4 Bolt & 6 Bolt Valves



REF#	DESCRIPTION	PART #	PRICE ea.
1	Stem - 4 Bolt Series	V20151	\$7.61
1	Stem - 6 Bolt Series	V25151	\$11.71
2	Handle Straight - 4 Bolt Series	V20153	\$7.61
2	Handle Straight - 6 Bolt Series	V25153	\$11.71
3	Body - 4 Bolt Series	V20254	\$10.57
3	Body - V200FP / V204FP	V25254	\$14.50
3	Body - V300	V30254	\$21.47
3	Body - V300FP	V35254	\$29.73
4	Ball - 4 Bolt Series	V20255	\$10.45
4	Ball - V200FP / V204FP	V25255	\$11.18
4	Ball - V300	V30255	\$20.17
4	Ball - V300FP	V35255	\$32.37
5	1 1/4" End Plate - V125FP	V20267	\$11.12
5	1 1/2" End Plate - V150FP	V20257	\$11.12
5	2" End Plate - V200	V20256	\$11.12
5	2" End Plate - V204FP	V24256	\$14.08
5	2" End Plate - V200FP	V25256	\$16.25
5	3" End Plate - V300	V30264	\$29.19
5	3" End Plate - V300FP	V35264	\$42.28
6	Teflon® Seats - 4 Bolt Series	V20258	\$8.45
6	Teflon® Seats - V200FP / V204FP	V25258	\$10.29
6	Teflon® Seats - V300	V30258	\$11.17
6	Teflon® Seats - V300FP	V35258	\$18.18
7	Upper Stem Bushing - 4 Bolt Series	V20159	\$2.65
7	Upper Stem Bushing - 6 Bolt Series / V204FP	V25160	\$3.70
8	Thrust Washer - 4 Bolt Series	V20060	\$1.85
8	Thrust Washer - 6 Bolt Series / V204FP	V25060	\$1.85
9	Stem O-Ring (Viton®) - 4 Bolt Series	V20163	\$2.32
9	Stem O-Ring (Viton®) - 6 Bolt Series/V204FP	V25163	\$3.20
10	Valve Body O-Ring (Viton®) - 4 Bolt Series	V20264	\$8.45
10	Valve Body O-Ring (Viton®) - V200 FP/V204FP	V25264	\$8.59
10	Valve Body O-Ring (Viton®) - V300	V30265	\$9.93
10	Valve Body O-Ring (Viton®) - V300FP	V35265	\$12.15
11	3/8" S.S. Bolt - 4 Bolt Series	V20017	\$1.51
11	3/8" S.S. Bolt - V200FP / V204FP	V25017	\$2.11
11	3/8" S.S. Bolt - V300	V30017	\$3.05
11	3/8" S.S. Bolt - V300FP	V35017	\$4.31
12	3/8" S.S. Lock Washer - 4 & 6 Bolt Series	V20018	\$0.37
13	3/8" S.S. Nut - 4 & 6 Bolt Series	V20019	\$0.92
14	S.S. Handle Bolt - 4 & 6 Bolt Series	V20020	\$1.21
15	S.S. Handle Washer - 4 & 6 Bolt Series	V20021	\$0.37
	Valve Repair Kit - 4 Bolt Series	V20200	\$35.69
	Valve Repair Kit - V200FP	V25200	\$46.91
	Valve Repair Kit - V204FP	V20400	\$55.77
	Valve Repair Kit - V300	V30200	\$66.04
	Valve Repair Kit - V300FP	V35200	\$114.97

* Parts highlighted in gray are included in kits.

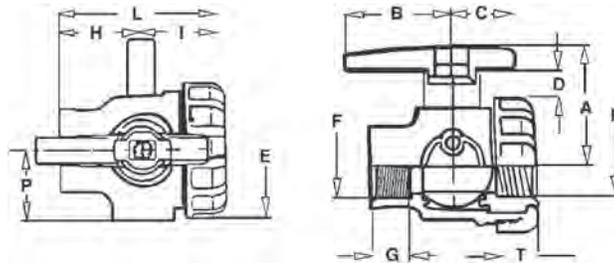
4 & 6 BOLT BALL VALVES



Single Union Ball Valves

- Sturdy Construction, fiberglass reinforced polypropylene body
- PTFE seats for smooth operation.
- E.P.D.M. seals standard
- 125 P.S.I. @ 140° F

PART #	SIZE	PRICE ea.	CTN. QTY
SU050E	1/2"	\$30.55	90
SU075E	3/4"	\$30.55	90
SU100E	1"	\$32.08	50
SU125E	1 1/4"	\$61.21	30
SU150E	1 1/2"	\$72.86	22
SU200E	2"	\$84.27	24



F/F NPT Threads (F)	Type	Dimensions (Inches)										
		A	B	C	D	E	G	H	I	L	P	T
1/2"		2.36	1.65	1.65	0.63	2.32	0.91	1.71	1.75	3.46		0.91
3/4"		2.36	1.65	1.65	0.63	2.32	0.91	1.71	1.75	3.46		0.91
1"	1	2.87	1.65	2.09	0.79	2.72	0.91	1.83	2.05	3.88	1.46	0.98
1 1/4"	1	3.15	1.65	3.03	0.79	3.23	0.98	2.11	2.17	4.27	1.69	1.02
1 1/2"	2	3.43	1.93	3.15	0.79	3.90	1.10	2.46	2.50	4.96	2.01	1.10
2"	2	4.33	1.93	5.12	0.98	4.53	1.18	2.87	2.97	5.85	2.01	1.18

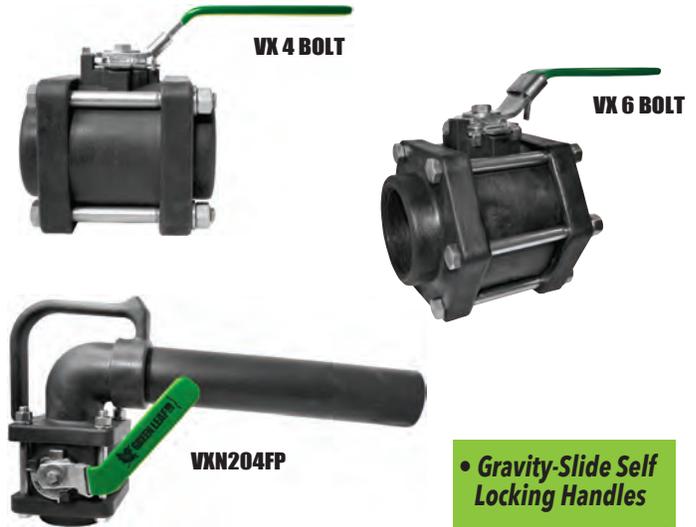
THE **X** S•E•R•I•E•S

X SERIES features

- Stainless Steel Bolts
- Stainless Steel Handles with New Ergonomic Design and Locking feature for added safety.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength. Self-aligning ball moves freely against the Teflon® seats for smooth operation. The valve opens and closes with little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Viton® "O" rings.
- Teflon® self-lubricating stem bushings and seats cannot stick or bind.
- 4 Bolt – Maximum operating pressure 150 PSI@ 70°F. 75 PSI@ 150°F.
- 6 Bolt – Maximum operating pressure 100 PSI@ 70°F. 75 PSI@ 150°F.

Four Bolt Valve

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VX050FP	1/2" Full Port	\$48.12	24
VX075FP	3/4" Full Port	\$48.12	24
VX100	1" Standard Port	\$48.12	24
VX100FP	1" Full Port	\$53.85	24
VX125	1-1/4" Standard Port	\$53.85	24
VX125FP	1-1/4" Full Port	\$63.68	24
VX150FP	1-1/2" Full Port	\$80.59	24
VX200	2" Standard Port	\$80.59	24



- Gravity-Slide Self Locking Handles
- Locks in Open and Close Position

Six Bolt Valves

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VX200FP	2" Full Port	\$105.41	8
VX300FP	3" Full Port	\$196.75	6

Eight Bolt Valves

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VX400FP	4" Full Port	\$416.67	2

Nozzle Valves - 4 Bolt

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VXN204FP	2" Full Port Nozzle Valve with 90° Elbow	\$109.35	4

Nozzle Valves - 6 Bolt

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VXN200FP	2" Full Port Nozzle Valve with 90° Elbow	\$131.63	4
VXN300FP	3" Full Port Nozzle Valve with 90° Elbow	\$217.86	2

Xtra Small Valves "XS Valves"

PART #	DESCRIPTION	PRICE ea.	CTN. QTY
VX204FP	2" Female NPT x 2" Female NPT, Full Port	\$86.79	12
VXM204FP	2" Female NPT x 2" Male NPT, Full Port	\$86.79	12
VXA204FP	2" Female NPT x 2" Male Adapter, Full Port	\$86.79	12
VXMA204FP	2" Male NPT x 2" Male Adapter, Full Port	\$86.79	12



STEEL HANDLED BALL VALVES



- True Union, in-line repairable
- Sturdy construction, chemical couple polypropylene
- Precision machined ball & multiple "O" rings seals prevent leaking
- 125 P.S.I. @ 140° F
- PTFE filled Polyethylene Seats
- E.P.D.M. seals standard (optional for Viton® & Buna seals)
- Optional Lever Handles

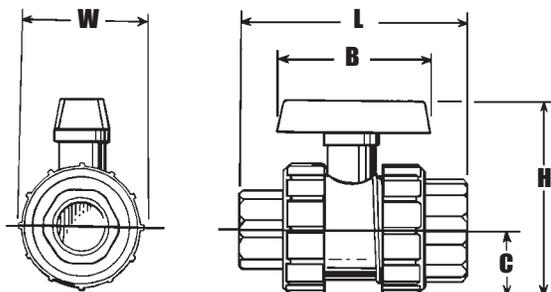
True Union Ball Valve

PART #	SIZE	DESCRIPTION	PRICE ea.
TU050E	1/2"	Full Port (T handle)	\$32.00
TU050EL	1/2"	Full Port (lever handle)	\$34.70
TU075E	3/4"	Full Port (T handle)	\$35.37
TU075EL	3/4"	Full Port (lever handle)	\$38.08
TU100E	1"	Standard Port (T handle)	\$39.41
TU100EL	1"	Standard Port (lever handle)	\$42.13
TU125E	1-1/4"	Full Port (T handle)	\$52.89
TU125EL	1-1/4"	Full Port (lever handle)	\$55.57
TU150E	1-1/2"	Full Port (T handle)	\$55.57
TU150EL	1-1/2"	Full Port (lever handle)	\$58.27
TU200E	2"	Standard Port (T handle)	\$66.36
TU200EL	2"	Standard Port (lever handle)	\$69.39

SIZE	B	L	H	C	W
1-1/4", 1-1/2", 2"	4-1/4"	6-1/4"	5-1/2"	1-7/8"	3-3/4"
1/2", 3/4", 1"	3-1/2"	4-3/4"	3-3/8"	1-1/8"	2-3/8"



75 psi



HM Quick Shut Off Valve

One quarter turn polypropylene ball valve. Used in liquid plumbing applications as a quick shut off valve.

PART #	DESCRIPTION	PRICE ea.
HM50B	1/2" FPT With Buna "O" Ring	\$21.13
HM75B	3/4" FPT With Buna "O" Ring	\$21.13
HM38V	3/8" FPT With Viton® "O" Ring	\$22.11
HM50V	1/2" FPT With Viton® "O" Ring	\$22.11
HM75V	3/4" FPT With Viton® "O" Ring	\$22.11

Optional Lever Handle (True Union)

PART #	DESCRIPTION	PRICE ea.
TU25	Lever handle for Small Valve (1/2" thru 1")	\$10.24
TU26	Lever handle for Large Valve (1 1/4" thru 2")	\$15.53



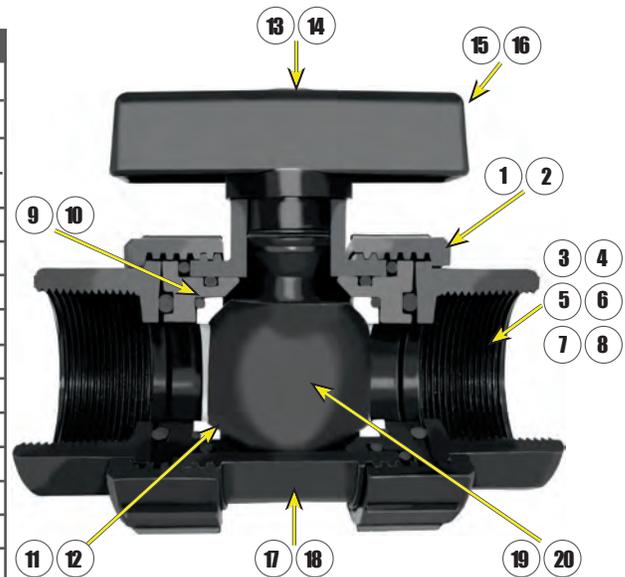
Valve Repair Kit (True Union)

PART #	DESCRIPTION	PRICE ea.
TUES	9 - EPDM "O" Rings for 1/2" thru 1"	\$4.62
TUEL	9 - EPDM "O" Rings for 1 1/4" thru 2"	\$11.54

* For Viton® or Buna "O" Rings – contact the sales dept.

Individual Parts (True Union)

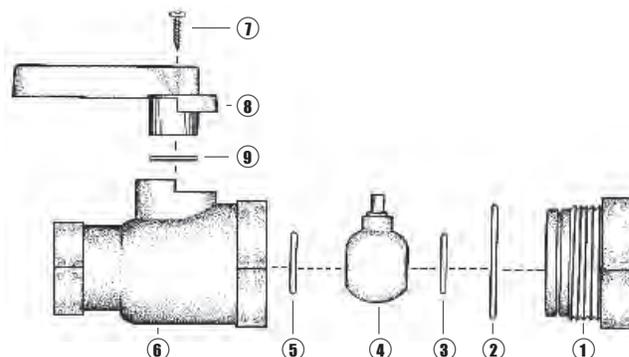
REF #	PART #	DESCRIPTION & SIZE	PRICE ea.
1	TU01	End Nut - Small (for 1/2" thru 1")	\$11.54
2	TU02	End Nut - Large (for 1 1/4" thru 2")	\$18.18
3	TU03	Thread Adapter - 1/2"	\$14.88
4	TU04	Thread Adapter - 3/4"	\$14.88
5	TU05	Thread Adapter - 1"	\$14.88
6	TU06	Thread Adapter - 1 1/4"	\$21.47
7	TU07	Thread Adapter - 1 1/2"	\$21.47
8	TU08	Thread Adapter - 2"	\$21.47
9	TU09	Seat Holder - Small (for 1/2" thru 1")	\$14.88
10	TU10	Seat Holder - Large (for 1 1/4" thru 2")	\$14.88
11	TU11	PTFE filled PE Seats - Small (for 1/2" thru 1")	\$8.26
12	TU12	PTFE filled PE Seats - Large (for 1 1/4" thru 2")	\$18.18
13	TU13	Screw - Small (for 1/2" thru 1")	\$2.32
14	TU14	Screw - Large (for 1 1/4" thru 2")	\$2.32
15	TU15	Tee Handle - Small (for 1/2" thru 1")	\$8.26
16	TU16	Tee Handle - Large (for 1 1/4" thru 2")	\$14.88
17	TU17	Body - Small (for 1/2" thru 1")	\$11.54
18	TU18	Body - Large (for 1 1/4" thru 2")	\$18.18
19	TU19	Small Ball - Small (for 1/2" thru 1")	\$11.54
20	TU20	Large Ball - Large (for 1 1/4" thru 2")	\$18.18



Small = 1/2", 3/4", 1"
 Large = 1 1/4", 1 1/2", 2"

Individual Parts (HM Quick Shut Off Valve)

REF #	DESCRIPTION
1	End Cap
2	"O" Ring End Cap
3	"O" Ring Ball
4	Ball
5	"O" Ring Ball
6	Body
7	Screw
8	Handle
9	"O" Ring Stem



GATOR LOCK®

Couplings



GATOR LOCK CAM LEVER COUPLINGS

Green Leaf®, Inc. has brought exciting innovations to a product that has existed for years without change. These innovations have prepared this product for use in the 21st century while maintaining interchangeability with other designs.

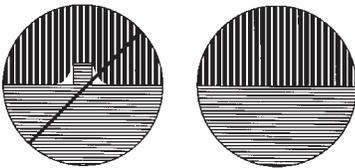
Some features include:

ENHANCED SAFETY-

Exclusive Cam Lever Locking Mechanism helps to reduce the possibility of unintentionally opening the cam levers, which could result in personal injury and costly spills.

SMOOTH SEALING SURFACE-

Parting lines have been removed from the sealing area of the male couplings, as illustrated below, this reduces the possibility of leaks and wear to the rubber seal.



EXPANDED PRODUCT APPLICATION-

By extending the nipple length of the "B" series this coupling can now be used in applications which would normally require an additional fitting to cam properly.

These improvements and many others have been made to the Gator Lock® cam lever couplings which allows Green Leaf®, Inc. to offer you a significantly improved product at a price that is competitive to products without these improvements.



PATENT # 6,089,619

A SERIES

SIZE & DESCRIPTION	PART #	PRICE ea.
Male Adapter/ 1/2"- Female Thread	GLP050A	\$7.07
Male Adapter/ 3/4"- Female Thread	GLP075A	\$7.07
Male Adapter/ 1"- Female Thread	GLP100A	\$6.58
Male Adapter/ 1 1/4"- Female Thread	GLP125A	\$6.58
Male Adapter/ 1 1/2"- Female Thread	GLP150A	\$7.76
Male Adapter/ 1 3/4"- Female Thread	GLP150125A	\$8.61
Male Adapter/ 2"- Female Thread	GLP200A	\$9.07
Male Adapter/ 3"- Female Thread	GLP300A	\$20.47
Male Adapter/ 4"- Female Thread	GLP400A	\$34.37



SERIES "A"



Specifications:

- 1/2" through 2" maximum operating pressure 125 psi @ 70° F.
- 3" and 4" maximum operating pressure 75 psi @ 70° F.
- EPDM Gaskets
- 1/2" series couplings interchange with 3/4" size couplings. Coupling ends are 3/4" size.
- 1-1/4" series couplings interchange with 1" size couplings. Coupling ends are 1" size.



B SERIES

SIZE & DESCRIPTION	LOCKING		NON-LOCKING	
	PART #	PRICE ea.	PART #	PRICE ea.
Female Coupler/ 1/2" - Male Thread	GLP050B	\$16.06	GLP050BNL	\$13.39
Female Coupler/ 3/4" - Male Thread	GLP075B	\$16.16	GLP075BNL	\$13.45
Female Coupler/ 1" - Male Thread	GLP100B	\$19.68	GLP100BNL	\$14.58
Female Coupler/ 1 1/4" - Male Thread	GLP125B	\$19.85	GLP125BNL	\$15.92
Female Coupler/ 1 1/2" - Male Thread	GLP150B	\$24.53	GLP150BNL	\$19.69
Female Coupler/ 1 1/4" - Male Thread			GLP150125BNL	\$22.57
Female Coupler/ 2" - Male Thread	GLP200B	\$26.55	GLP200BNL	\$23.98
Female Coupler/ 3" - Male Thread	GLP300B	\$45.07	GLP300BNL	\$38.38
Female Coupler/ 4" - Male Thread			GLP400BNL	\$87.28



SERIES "B"

C SERIES

SIZE & DESCRIPTION	LOCKING		NON-LOCKING	
	PART #	PRICE ea.	PART #	PRICE ea.
Female Coupler/ 1/2" - Hose Barb	GLP050C	\$16.15	GLP050CNL	\$13.45
Female Coupler/ 3/4" - Hose Barb	GLP075C	\$16.17	GLP075CNL	\$13.45
Female Coupler/ 1" - Hose Barb	GLP100C	\$19.58	GLP100CNL	\$15.77
Female Coupler/ 1 1/4" - Hose Barb	GLP125C	\$19.58	GLP125CNL	\$15.88
Female Coupler/ 1 1/2" - Hose Barb	GLP150C	\$24.22	GLP150CNL	\$19.44
Female Coupler/ 1 1/4" - Hose Barb			GLP150125CNL	\$22.57
Female Coupler/ 2" - Hose Barb	GLP200C	\$26.55	GLP200CNL	\$23.98
Female Coupler/ 3" - Hose Barb	GLP300C	\$45.07	GLP300CNL	\$42.97
Female Coupler/ 4" - Hose Barb			GLP400CNL	\$87.28



SERIES "C"

D SERIES

SIZE & DESCRIPTION	LOCKING		NON-LOCKING	
	PART #	PRICE ea.	PART #	PRICE ea.
Female Coupler/ 1/2" - Female Thread	GLP050D	\$18.83	GLP050DNL	\$15.69
Female Coupler/ 3/4" - Female Thread	GLP075D	\$18.80	GLP075DNL	\$15.72
Female Coupler/ 1" - Female Thread	GLP100D	\$22.47	GLP100DNL	\$18.38
Female Coupler/ 1 1/4" - Female Thread	GLP125D	\$22.49	GLP125DNL	\$18.40
Female Coupler/ 1 1/2" - Female Thread	GLP150D	\$24.22	GLP150DNL	\$21.80
Female Coupler/ 1 1/4" - Female Thread			GLP150125DNL	\$23.59
Female Coupler/ 2" - Female Thread	GLP200D	\$27.54	GLP200DNL	\$23.98
Female Coupler/ 3" - Female Thread	GLP300D	\$45.07	GLP300DNL	\$37.52
Female Coupler/ 4" - Female Thread			GLP400DNL	\$87.28



SERIES "D"

GATOR LOCK CAM LEVER COUPLINGS

GATOR LOCK®

Couplings



GATOR LOCK CAM LEVER COUPLINGS



SERIES "E"



SERIES "F"



"PL" SERIES



"CAP" SERIES

E SERIES

SIZE & DESCRIPTION	PART #	PRICE ea.
Male Adapter/ 1/2" - Hose Barb	GLP050E	\$7.77
Male Adapter/ 3/4" - Hose Barb	GLP075E	\$7.77
Male Adapter/ 1" - Hose Barb	GLP100E	\$7.91
Male Adapter/ 1 1/4" - Hose Barb	GLP125E	\$7.91
Male Adapter/ 1 1/2" - Hose Barb	GLP150E	\$8.17
Male Adapter/ 1 1/4" - Hose Barb	GLP150125E	\$9.11
Male Adapter/ 2" - Hose Barb	GLP200E	\$11.33
Male Adapter/ 3" - Hose Barb	GLP300E	\$22.81
Male Adapter/ 4" - Hose Barb	GLP400E	\$34.50

F SERIES

SIZE & DESCRIPTION	PART #	PRICE ea.
Male Adapter/ 1/2" - Male Thread	GLP050F	\$7.77
Male Adapter/ 3/4" - Male Thread	GLP075F	\$7.77
Male Adapter/ 1" - Male Thread	GLP100F	\$7.91
Male Adapter/ 1 1/4" - Male Thread	GLP125F	\$7.91
Male Adapter/ 1 1/2" - Male Thread	GLP150F	\$8.17
Male Adapter/ 1 1/4" - Male Thread	GLP150125F	\$9.11
Male Adapter/ 2" - Male Thread	GLP200F	\$11.33
Male Adapter/ 3" - Male Thread	GLP300F	\$21.93
Male Adapter/ 4" - Male Thread	GLP400F	\$34.50

PL SERIES

SIZE & DESCRIPTION	PART #	PRICE ea.
1/2" - Plug for Female Coupler	GLP050PL	\$7.12
3/4" - Plug for Female Coupler	GLP075PL	\$7.12
1" - Plug for Female Coupler	GLP100PL	\$7.12
1 1/4" - Plug for Female Coupler	GLP125PL	\$7.12
1 1/2" - Plug for Female Coupler	GLP150PL	\$7.91
2" - Plug for Female Coupler	GLP200PL	\$10.67
3" - Plug for Female Coupler	GLP300PL	\$19.64
4" - Plug for Female Coupler	GLP400PL	\$27.13

CAP SERIES

SIZE & DESCRIPTION	LOCKING		NON-LOCKING	
	PART #	PRICE ea.	PART #	PRICE ea.
1/2" - CAP for Male Adapter	GLP050CAP	\$16.04	GLP050CAPNL	\$13.85
3/4" - CAP for Male Adapter	GLP075CAP	\$16.04	GLP075CAPNL	\$13.85
1" - CAP for Male Adapter	GLP100CAP	\$19.47	GLP100CAPNL	\$15.77
1 1/4" - CAP for Male Adapter	GLP125CAP	\$19.47	GLP125CAPNL	\$15.77
1 1/2" - CAP for Male Adapter	GLP150CAP	\$24.22	GLP150CAPNL	\$19.42
2" - CAP for Male Adapter	GLP200CAP	\$26.55	GLP200CAPNL	\$23.98
3" - CAP for Male Adapter	GLP300CAP	\$45.07	GLP300CAPNL	\$39.91
4" - CAP for Male Adapter			GLP400CAPNL	\$63.69

NEW
3" Locking

Specifications:

- 1/2" through 2" maximum operating pressure 125 psi @ 70° F.
- 3" and 4" maximum operating pressure 75 psi @ 70° F.
- EPDM Gaskets
- 1/2" series couplings interchange with 3/4" size couplings. Coupling ends are 3/4" size.
- 1-1/4" series couplings interchange with 1" size couplings. Coupling ends are 1" size.

SPOOL ADAPTER

SIZE & DESCRIPTION	PART #	PRICE ea.
	NON - LOCKING	
2" Spool Adapter	GLP200SA	\$12.48

45° F

SIZE & DESCRIPTION	PART #	PRICE ea.
	NON - LOCKING	
45° 2" Male Adapter/ 2" Male Thread	GLP200F45	\$12.48

90° SERIES

SIZE & DESCRIPTION	PART #	PRICE ea.
	NON - LOCKING	
90° Male Adapter/ 1 1/2" Female Thread	GLP150AL	\$15.71
90° Male Adapter/ 2" Female Thread	GLP200AL	\$17.67
90° Female Coupler/ 1 1/2" Hose Shank	GLP150CLNL	\$32.90
90° Female Coupler/ 2" Hose Shank	GLP200CLNL	\$39.29
90° Female Coupler/ 1 1/2" Female Thread	GLP150DLNL	\$32.91
90° Female Coupler/ 2" Female Thread	GLP200DLNL	\$39.29
90° Male Adapter/ 1 1/2" Male Thread	GLP150FL	\$19.20
90° Male Adapter/ 2" Male Thread	GLP200FL	\$19.77

REPLACEMENT GASKET

SIZE & DESCRIPTION	PART #	PRICE ea.
1/2" & 3/4" EPDM Replacement Gasket	90043	\$0.48
1" & 1 1/4" EPDM Replacement Gasket	90042	\$0.58
1 1/2" EPDM Replacement Gasket	90041	\$0.69
2" EPDM Replacement Gasket	90040	\$0.84
3" EPDM Replacement Gasket	90039	\$3.86
4" EPDM Replacement Gasket	90038	\$3.26





Gator Lock 200-300 Series

SIZE & DESCRIPTION	PART #	PRICE ea.
2" Male Adapter x 3" Female Thread	GLP200300A	\$13.65
2" Male Adapter x 3" Male Thread	GLP200300F	\$13.65
3" Female Coupler x 2" Male Adapter	GLP300B200A	\$45.48



300B200A



200300A



200300F



SERIES "B"

SERIES "C"

SERIES "D"

"CAP" SERIES

Green Arm Couplings

- Same features as Green Leaf's® original Gator Lock® Couplings, but with the Economical Plastic Arms
- Glass-Filled Polypropylene
- Arms have Lifetime Warranty
- Maximum operating pressure 90 psi @ 70° F
- Non-Locking
- EPDM Gaskets
- 1-1/2" and 2" sizes available

Reinforced Polypropylene Arms with Lifetime Warranty

ITEM	DESCRIPTION	1 1/2"	PRICE ea.	2"	PRICE ea.
B	Female Coupler/Male Thread	GLP150BNLP	\$16.21	GLP200BNLP	\$17.98
C	Female Coupler/Hose Barb	GLP150CNLP	\$16.21	GLP200CNLP	\$17.98
D	Female Coupler/Female Thread	GLP150DNLP	\$17.14	GLP200DNLP	\$17.98
CAP	Cap for Male Adapter	GLP150CAPNLP	\$16.21	GLP200CAPNLP	\$17.98



NEW

GATOR LOCK CAM LEVER COUPLINGS

Garden Hose Couplings

Polypropylene Garden Hose Couplings used to connect a Female GHT to a Male GHT

PART #	SIZE & DESCRIPTION	PRICE ea.
GLP075AG	3/4" Female GHT x 3/4" Male Adapter	\$7.07
GLP075BG	3/4" Male GHT x 3/4" Female Adapter	\$13.45
GLP075DG	3/4" Female GHT x 3/4" Female Coupler	\$15.72
GLP075FG	3/4" Male GHT x 3/4" Male Adapter	\$7.77

Use either of the valve connectors as a quick shutoff at the end of any garden hose.

**Pull back
to disconnect!**



Available with 1" Female NPT Threads

Male Adapter & Female Coupler shown coupled together.
Male Adapter & Female Coupler sold separately as shown below.

Applications:

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing

Dry Poppet Couplings

Features:

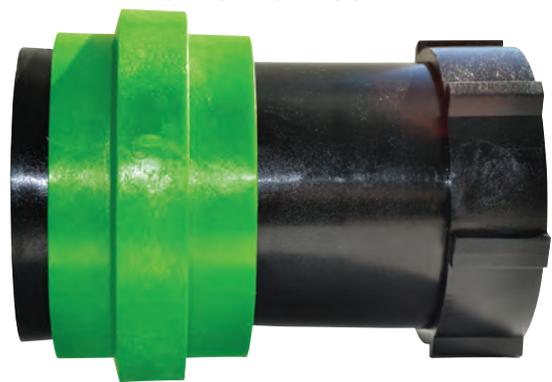
- Lightweight.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Maximum operating pressure 70 P.S.I. @ 70°F.
- Maximum operating temperature 150°F.
- 30 GPM maximum flow.
- Precision molded in polypropylene.
- 1" Female NPT threads.

PART #	DESCRIPTION	PRICE ea.
QD100F	Female Dry Poppet Coupler, 1" Female NPT Threads FKM (viton type) Seals	\$130.78
QD100M	Male Dry Poppet Adapter, 1" Female NPT Threads FKM (viton type) Seals	\$103.65

Male Adapter Dry Poppet — QD100M



Female Coupling Dry Poppet — QD100F



Male & Female sold separately.



Dispensing Nozzle

Glass Filled Polypropylene – Stainless Steel Handle, Spring and Pin

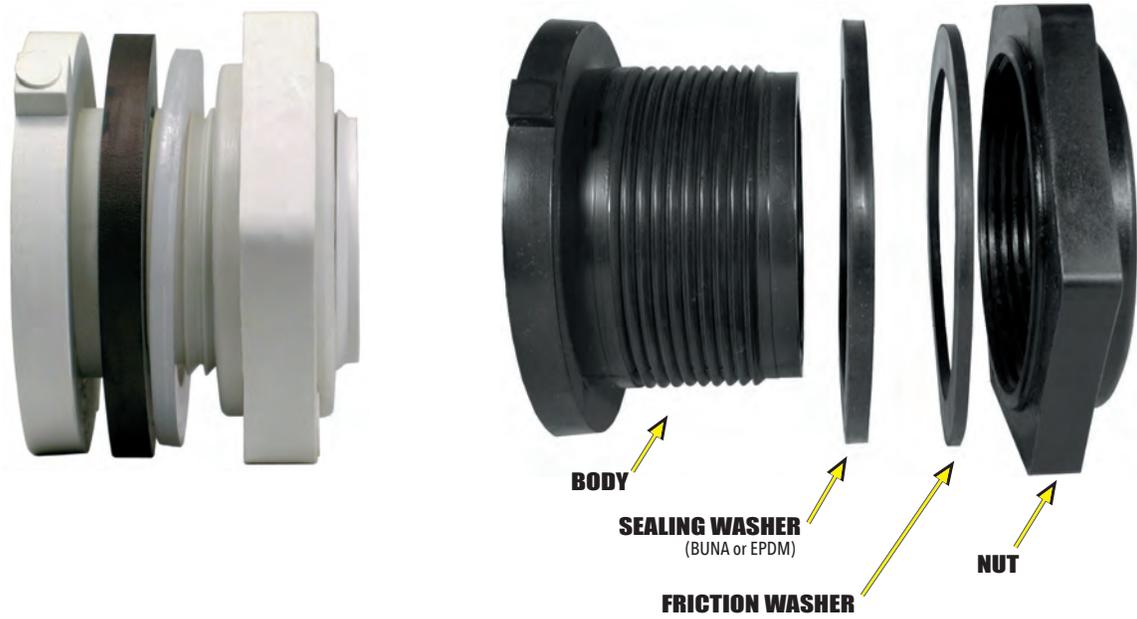
PART #	DESCRIPTION	PRICE ea.
VN100	1" Poly Dispensing Nozzle, 75 PSI max	\$91.39



Swivel Fitting

75 PSI Maximum

PART #	DESCRIPTION	PRICE ea.
SW100	1" Male x 1" Female Swivel	\$23.28
SW150	1 1/2" Male x 1 1/2" Female Swivel	\$27.99
SW200	2" Male x 2" Female Swivel	\$32.47



Bulkhead Fitting

External Thread and nut are left hand threads.
 Internal Thread is FPT.
 For use with tanks having a wall thickness of 1/16" to 1/2".

- Material:
- Body and Nut are either Nylon (N) or Polypropylene (P)
 - Friction washer is Polyethylene
 - Sealing washer is either Buna (B) or EPDM (E).

Nylon, Buna and Polyethylene used in manufacturing are FDA approved grade.

PART #						THREAD	WASHER	HOLE SIZE
INTERNAL SEALING								
NYLON	PRICE ea.	CTN. QTY	POLYPROPYLENE	PRICE ea.	CTN. QTY			
TF12NB	\$9.68	150	TF12PB	\$9.68	150	1/2" Female NPT	BUNA	1 1/2"
TF12NE	\$9.19	150	TF12PE	\$9.18	150	1/2" Female NPT	EPDM	1 1/2"
TF34NB	\$9.19	150	TF34PB	\$9.18	150	3/4" Female NPT	BUNA	1 1/2"
TF34NE	\$9.19	150	TF34PE	\$8.57	150	3/4" Female NPT	EPDM	1 1/2"
			TF100PE	\$11.00	100	1" Female NPT	EPDM	2 3/8"
			TF125PE	\$10.39C	100	1 1/4" Female NPT	EPDM	2 3/8"
			TF150PE	\$12.83	60	1 1/2" Female NPT	EPDM	3"
			TF200PE	\$12.83	60	2" Female NPT	EPDM	3"
			TF300PE	\$48.46	18	3" Female NPT	EPDM	4 1/2"
			TF400PE	\$152.06	2	4" Female NPT	EPDM	5 3/4"

Siphon Tube

PART #	DESCRIPTION	PRICE ea.
ST200	2" Poly Siphon Tube	\$5.45



Steel Plated Combination Nipples

PART #	SIZE & DESCRIPTION	PRICE ea.
CN050SP	1/2" Hose Barb x NPT Thread	\$4.59
CN075SP	3/4" Hose Barb x NPT Thread	\$4.79
CN100SP	1" Hose Barb x NPT Thread	\$6.15
CN125SP	1-1/4" Hose Barb x NPT Thread	\$8.27
CN150SP	1-1/2" Hose Barb x NPT Thread	\$10.61
CN200SP	2" Hose Barb x NPT Thread	\$14.44



Heavy Duty Poly Combination Nipples

PART #	SIZE & DESCRIPTION	PRICE ea.
CN050P	1/2" NPT Thread x 1/2" Hose Barb	\$2.47
CN075050P	3/4" NPT Thread x 1/2" Hose Barb	\$2.65
CN075P	3/4" NPT Thread x 3/4" Hose Barb	\$2.65
CN075100P	3/4" NPT Thread x 1" Hose Barb	\$3.09
CN100075P	1" NPT Thread x 3/4" Hose Barb	\$3.09
CN100P	1" NPT Thread x 1" Hose Barb	\$3.09
CN100125P	1" NPT Thread x 1-1/4" Hose Barb	\$4.21
CN125100P	1-1/4" NPT Thread x 1" Hose Barb	\$4.21
CN125P	1-1/4" NPT Thread x 1-1/4" Hose Barb	\$4.21
CN150125P	1-1/2" NPT Thread x 1-1/4" Hose Barb	\$4.57
CN150P	1-1/2" NPT Thread x 1-1/2" Hose Barb	\$4.57
CN150200P	1-1/2" NPT Thread x 2" Hose Barb	\$5.65
CN200150P	2" NPT Thread x 1-1/2" Hose Barb	\$5.65
CN200P	2" NPT Thread x 2" Hose Barb	\$5.65
CN300P	3" NPT Thread x 3" Hose Barb	\$14.24



Pin Lug Couplers

- Pin Lug Hose Barb Couplers (Full Sets)
- Aluminum Shank with Brass Swivel Nut

PART #	DESCRIPTION	PRICE ea.
PL150DP	1-1/2"	\$26.18
PL200DP	2"	\$34.69
PG150NBR	1-1/2" Gasket	\$0.80
PG200NBR	2" Gasket	\$0.86



M

Heavy Duty Poly Nipple

Used in fluid plumbing application to connect Female PT fittings

PART #	DESCRIPTION	PRICE ea.
M1124HD	1-1/2" Long X 4" Long	\$8.43
M1126HD	1-1/2" Long X 6" Long	\$9.47
M2004HD	2" Long X 4" Long	\$9.48
M2006HD	2" Long X 6" Long	\$11.18
M3000HD	3" Long X 3" Long	\$16.45
M3006HD	3" Long X 6" Long	\$27.19



CAP

Heavy Duty Pipe Caps

Used in fluid plumbing applications to cap off a Long fitting

PART #	DESCRIPTION	PRICE ea.
CAP050HD	1/2" Poly Cap	\$3.19
CAP075HD	3/4" Poly Cap	\$5.73
CAP100HD	1" Poly Cap	\$5.73
CAP125HD	1-1/4" Poly Cap	\$6.36
CAP150HD	1-1/2" Poly Cap	\$7.96
CAP200HD	2" Poly Cap	\$9.49
CAP300HD	3" Poly Cap	\$27.28



RM

Heavy Duty Reducing Nipple

PART #	DESCRIPTION	PRICE ea.
RM200150HD	2" Long x 1-1/2" Long	\$3.64
RM300200HD	3" Long x 2" Long	\$12.74



SHM

Heavy Duty Straight Hose Mender

PART #	DESCRIPTION	PRICE ea.
SHM200HD	2" Hose Barb x 2" Hose Barb	\$4.55
SHM300HD	3" Hose Barb x 3" Hose Barb	\$11.82

Heavy Duty Street Elbow

PART #	DESCRIPTION	PRICE ea.
SE200HD	2" Female NPT x 2" Long 90° Street Elbow	\$11.36
SE15045HD	1-1/2" Female NPT x 1-1/2" Long 45° Street Elbow	\$11.37
SE20045HD	2" Female NPT x 2" Long 45° Street Elbow	\$11.36
SE300HD	3" Female NPT x 3" Long 90° Street Elbow	\$65.99



SE

Heavy Duty Elbow

PART #	DESCRIPTION	PRICE ea.
EL150HD	1-1/2" Long x 1-1/2" Long Hose Barb 90° Elbow	\$7.21
EL200HD	2" Long x 2" Long Hose Barb 90° Elbow	\$8.18
EL300HD	3" Long x 3" Long Hose Barb 90° Elbow	\$22.74



EL

Heavy Duty Plug

PART #	DESCRIPTION	PRICE ea.
F150HD	1-1/2" Long Plug	\$4.56
F200HD	2" Long Plug	\$4.56
F300HD	3" Long Plug	\$18.19



F

Heavy Duty Coupling

PART #	DESCRIPTION	PRICE ea.
	Female NPT x Female NPT	
FTC075HD	3/4" x 3/4"	\$3.64
FTC100HD	1" x 1"	\$4.10
FTC150HD	1-1/2" x 1-1/2"	\$9.09
FTC200HD	2" x 2"	\$10.01
FTC200100HD	2" x 1"	\$10.01
FTC200150HD	2" x 1-1/2"	\$10.01
FTC300HD	3" x 3"	\$33.78
FTC300200HD	3" x 2"	\$17.73

FTC



FTC300200



Line Filters

- Polypropylene Body
- EPDM Gaskets
- Stainless Steel Screens

Available in 40 & 80 Mesh

PART #	DESCRIPTION	PRICE ea.
LST05040	1/2" Poly T-Strainer 40 Mesh	\$38.94
LST05080	1/2" Poly T-Strainer 80 Mesh	\$38.94
LST07540	3/4" Poly T-Strainer 40 Mesh	\$38.94
LST07580	3/4" Poly T-Strainer 80 Mesh	\$38.94
LST10040	1" Poly T-Strainer 40 Mesh	\$43.01
LST10080	1" Poly T-Strainer 80 Mesh	\$43.01
LST12540	1-1/4" Poly T-Strainer 40 Mesh	\$83.74
LST12580	1-1/4" Poly T-Strainer 80 Mesh	\$90.89
LST15040	1-1/2" Poly T-Strainer 40 Mesh	\$83.74
LST15080	1-1/2" Poly T-Strainer 80 Mesh	\$90.89

Replacement Gaskets & Screens Available



Strainers

Helps prevent debris from entering a suction line.
 Sizes: 1-1/2" & 2"

Basket Suction Strainer

Polypropylene Strainer

PART #	DESCRIPTION	PRICE ea.
SR150P	1-1/2" Female NPT	\$18.98
SR200P	2" Female NPT	\$18.98
SR300P	3" Female NPT	\$32.42



Round Hole Steel Strainer

Zinc Plated, with standard Pipe Threads

PART #	DESCRIPTION	PRICE ea.
SR125SP	1-1/4" Female NPT	\$29.03
SR150SP	1-1/2" Female NPT	\$29.03
SR200SP	2" Female NPT	\$35.13
SR300SP	3" Female NPT	\$50.95

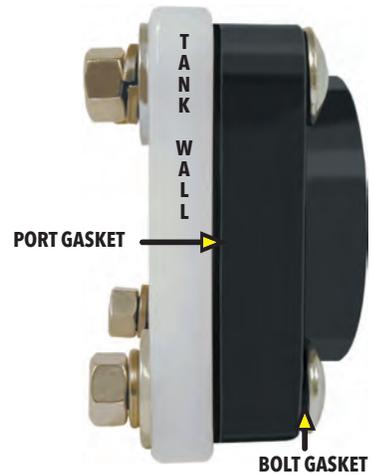
Outlet Flange (OF)

For use when access to inside of tank is available
Fits Tank Wall thickness from 1/4" - 1/2"

- Polypropylene Flanges
- Stainless Steel bolts, nuts & washers
- EPDM Gaskets

Sizes: 1-1/4", 1-1/2", 2" Standard Port, 2" Full Port

PART #	DESCRIPTION	PRICE ea.
OF125	1-1/4" Full Port	\$44.06
OF150	1-1/2" Full Port	\$44.06
OF200	2" Standard Port	\$44.06
OF200FP	2" Full Port	\$50.56



Inside Bolt Seal Double Seal Flange (DS)

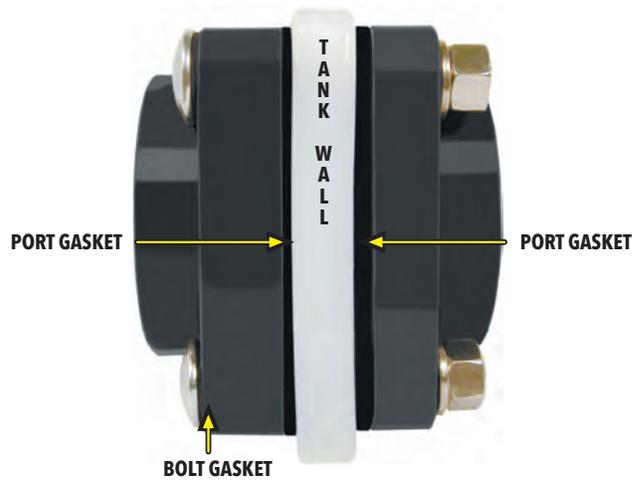
Nuts are tightened from outside of tank
Fits Tank Wall thickness from 1/4" - 1/2"

- Polypropylene Flanges
- Stainless Steel bolts, nuts & washers
- EPDM Gaskets

Sizes: 1-1/4", 1-1/2", 2" Standard Port, 2" Full Port

PART #	INLET	x	OUTLET	PRICE ea.
DS125	2" SP*		1-1/4" Full Port	\$61.56
DS150	2" SP*		1-1/2" Full Port	\$61.56
DS200	2" SP*		2" Standard Port	\$61.56
DS200FP	2" Full Port		2" Full Port	\$68.04

*SP = 1 1/2" Port



Additional Flange Hardware

PART #	DESCRIPTION	QTY.	PRICE ea.
PG1000	Port Gasket for Flange Fittings (EPDM)	ea.	\$9.53
BG1000	Bolt Gasket for Flange Fittings (EPDM)	pk of 4	\$7.12
OF1000	3/8" S.S. Bolt for OF Flange	ea.	\$3.42
OF1001	3/8" S.S. Flat Washer for OF Flange	ea.	\$0.33
DS1000	3/8" S.S. Bolt for DS Flange	ea.	\$4.04
F20019	3/8" S.S. Nut	ea.	\$0.88
F20018	3/8" S.S. Lock Washer	ea.	\$0.36



Straight Adapter

Use in conjunction with a hose clamp and quality thread sealant.

PART #		THREAD		HOSE BARB	
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x HOSE BARB	
A18316	\$0.89			1/8"	3/16"
A1814	\$0.67	A1814P	\$0.98	1/8"	1/4"
A18516	\$0.92			1/8"	5/16"
A1838	\$0.68	A1838P	\$0.98	1/8"	3/8"
A1812	\$0.75	A1812P	\$0.99	1/8"	1/2"
A1414	\$0.67	A1414P	\$0.95	1/4"	1/4"
A14516	\$1.09			1/4"	5/16"
A1438	\$0.69	A1438P	\$0.97	1/4"	3/8"
A1412	\$0.72	A1412P	\$0.99	1/4"	1/2"
A1458	\$1.30	A1458P	\$1.84	1/4"	5/8"
A1434	\$1.33	A1434P	\$1.89	1/4"	3/4"
A3814	\$0.71	A3814P	\$0.99	3/8"	1/4"
A38516	\$1.30			3/8"	5/16"
A3838	\$0.72	A3838P	\$0.99	3/8"	3/8"
A3812	\$0.73	A3812P	\$0.99	3/8"	1/2"
A3858	\$0.72	A3858P	\$0.99	3/8"	5/8"
A3834	\$0.89	A3834P	\$1.09	3/8"	3/4"
A1214	\$0.77	A1214P	\$1.02	1/2"	1/4"
A1238	\$0.77	A1238P	\$1.04	1/2"	3/8"
A1212	\$0.80	A1212P	\$1.01	1/2"	1/2"
A1258	\$0.85	A1258P	\$1.05	1/2"	5/8"
A1234	\$1.00	A1234P	\$1.09	1/2"	3/4"
A1210	\$1.31	A1210P	\$1.44	1/2"	1"
A12114	\$6.99	A12114P	\$7.78	1/2"	1-1/4"
A3414	\$1.24	A3414P	\$1.25	3/4"	1/4"
A3438	\$0.89	A3438P	\$1.08	3/4"	3/8"
A3412	\$0.91	A3412P	\$1.09	3/4"	1/2"
A3458	\$1.47	A3458P	\$1.50	3/4"	5/8"
A3434	\$1.00	A3434P	\$1.05	3/4"	3/4"
A3410	\$1.24	A3410P	\$1.25	3/4"	1"
A34114	\$2.41	A34114P	\$2.71	3/4"	1-1/4"
A1038	\$1.27	A1038P	\$1.29	1"	3/8"
A1012	\$1.24	A1012P	\$1.25	1"	1/2"
A1058	\$1.25	A1058P	\$1.27	1"	5/8"
A1034	\$1.27	A1034P	\$1.29	1"	3/4"
A1010	\$1.44	A1010P	\$1.39	1"	1"
A1114	\$2.91	A1114P	\$3.18	1"	1-1/4"
A11434	\$4.16	A11434P	\$3.75	1-1/4"	3/4"
A1141	\$3.12	A1141P	\$3.34	1-1/4"	1"
A114	\$2.91	A114P	\$3.23	1-1/4"	1-1/4"
A114112	\$3.22	A114112P	\$3.41	1-1/4"	1-1/2"
A1121	\$3.45	A1121P	\$3.66	1-1/2"	1"
A112	\$3.23	A112P	\$3.49	1-1/2"	1-1/2"
A112114	\$3.40	A112114P	\$3.56	1-1/2"	1-1/4"
A112200	\$10.08	A112200P	\$11.03	1-1/2"	2"
A200112	\$8.55	A200112P	\$9.07	2"	1-1/2"
A200	\$4.36	A200P	\$4.41	2"	2"

90 Degree Elbow

Use in conjunction with a hose clamp and quality thread sealant.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x	HOSE BARB
EL18316	\$1.83			1/8"	3/16"
EL1814	\$0.89	EL1814P	\$0.97	1/8"	1/4"
EL1838	\$1.99			1/8"	3/8"
EL1414	\$0.85	EL1414P	\$0.95	1/4"	1/4"
EL14516	\$1.89			1/4"	5/16"
EL1438	\$0.87	EL1438P	\$0.99	1/4"	3/8"
EL1412	\$0.98	EL1412P	\$1.02	1/4"	1/2"
EL1458	\$1.24	EL1458P	\$1.25	1/4"	5/8"
EL3814	\$1.04	EL3814P	\$1.05	3/8"	1/4"
EL38516	\$2.07			3/8"	5/16"
EL3838	\$1.09	EL3838P	\$1.10	3/8"	3/8"
EL3812	\$1.09	EL3812P	\$1.10	3/8"	1/2"
EL3858	\$1.15	EL3858P	\$1.17	3/8"	5/8"
EL1214	\$2.19	EL1214P	\$2.36	1/2"	1/4"
EL1238	\$1.15	EL1238P	\$1.17	1/2"	3/8"
EL1212	\$1.16	EL1212P	\$1.19	1/2"	1/2"
EL1258	\$1.44	EL1258P	\$1.45	1/2"	5/8"
EL1234	\$1.53	EL1234P	\$1.55	1/2"	3/4"
EL3414	\$2.45	EL3414P	\$2.42	3/4"	1/4"
EL3438	\$1.33	EL3438P	\$1.35	3/4"	3/8"
EL3412	\$1.38	EL3412P	\$1.40	3/4"	1/2"
EL3458	\$1.47	EL3458P	\$1.50	3/4"	5/8"
EL3434	\$1.58	EL3434P	\$1.60	3/4"	3/4"
EL3410	\$1.64	EL3410P	\$1.65	3/4"	1"
EL1038	\$1.55	EL1038P	\$1.57	1"	3/8"
EL1012	\$1.55	EL1012P	\$1.57	1"	1/2"
EL1058	\$1.65	EL1058P	\$1.69	1"	5/8"
EL1034	\$1.75	EL1034P	\$1.77	1"	3/4"
EL1010	\$1.91	EL1010P	\$1.94	1"	1"
EL1114	\$4.25	EL1114P	\$4.13	1"	1-1/4"
EL11434	\$8.09	EL11434P	\$7.16	1-1/4"	3/4"
EL1141	\$3.30	EL1141P	\$3.48	1-1/4"	1"
EL114	\$3.53	EL114P	\$3.64	1-1/4"	1-1/4"
EL114112	\$7.13	EL114112P	\$7.30	1-1/4"	1-1/2"
EL112	\$4.54	EL112P	\$4.59	1-1/2"	1-1/2"
EL200	\$6.00	EL200P	\$6.07	2"	2"



90 Degree Elbow

Use in conjunction with a hose clamp and quality thread sealant.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT x	HOSE BARB
EL1212F	\$1.79	EL1212FP	\$1.65	1/2"	1/2"
EL3412F	\$1.79	EL3412FP	\$1.94	3/4"	1/2"
EL3434F	\$2.16	EL3434FP	\$2.37	3/4"	3/4"





Straight Hose Mender

Used in fluid plumbing applications requiring the connection of two hoses. Commonly called a hose splice fitting or a shim fitting.

PART #				BARB 1	BARB 2
NYLON	PRICE ea.	POLY	PRICE ea.	HOSE BARB x	HOSE BARB
SHM1800	\$0.74	SHM1800P	\$0.92	1/8"	1/8"
SHM3160	\$0.76	SHM3160P	\$0.94	3/16"	3/16"
SHM1418	\$0.99			1/4"	1/8"
SHM14316	\$0.99			1/4"	3/16"
SHM1400	\$0.65	SHM1400P	\$0.94	1/4"	1/4"
SHM5160	\$0.85	SHM5160P	\$0.94	5/16"	5/16"
SHM3800	\$0.73	SHM3800P	\$0.95	3/8"	3/8"
SHM3814	\$0.90	SHM3814P	\$1.38	3/8"	1/4"
SHM1214	\$1.05	SHM1214P	\$1.01	1/2"	1/4"
SHM1200	\$0.91	SHM1200P	\$0.98	1/2"	1/2"
SHM1238	\$0.75	SHM1238P	\$0.97	1/2"	3/8"
SHM1258	\$1.04	SHM1258P	\$1.05	1/2"	5/8"
SHM5800	\$1.04	SHM5800P	\$1.05	5/8"	5/8"
SHM3412	\$2.67			3/4"	1/2"
SHM3400	\$1.15	SHM3400P	\$1.17	3/4"	3/4"
SHM1000	\$1.36	SHM1000P	\$1.39	1"	1"
SHM114	\$2.22	SHM114P	\$2.74	1-1/4"	1-1/4"
SHM112	\$5.41	SHM112P	\$4.76	1-1/2"	1-1/2"
SHM200	\$9.09	SHM200P	\$9.78	2"	2"



Tee Adapter

Used in fluid plumbing applications requiring a connection of two hoses to a Female NPT fitting and a hose.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x	HOSE BARB
MT1234	\$1.93	MT1234P	\$2.59	1/2"	3/4"
MT3438	\$1.80	MT3438P	\$2.45	3/4"	3/8"
MT3412	\$1.88	MT3412P	\$2.54	3/4"	1/2"
MT3434	\$2.05	MT3434P	\$2.70	3/4"	3/4"
MT1038	\$1.96	MT1038P	\$2.60	1"	3/8"
MT1012	\$2.04	MT1012P	\$2.68	1"	1/2"
MT1034	\$2.22	MT1034P	\$2.85	1"	3/4"

Elbow Barb

Use in conjunction with a hose clamp and quality thread sealant.



PART #				BARB 1	BARB 2
NYLON	PRICE ea.	POLY	PRICE ea.	HOSE BARB x 90 DEGREE	HOSE BARB
EB1414	\$1.61	EB1414P	\$2.05	1/4"	1/4"
EB3838	\$1.46	EB3838P	\$1.43	3/8"	3/8"
EB1212	\$1.04	EB1212P	\$1.06	1/2"	1/2"
EB5858	\$1.67	EB5858P	\$1.67	5/8"	5/8"
EB3434	\$1.33	EB3434P	\$1.46	3/4"	3/4"
EB1010	\$3.77			1"	1"
EB114	\$5.35	EB114P	\$5.78	1-1/4"	1-1/4"
EB112	\$5.78	EB112P	\$5.52	1-1/2"	1-1/2"
EB200	\$10.63	EB200P	\$10.78	2"	2"

Insert Tee

Use in conjunction with a hose clamp and quality thread sealant.

PART #				BARB 1	BARB 2	BARB 3
NYLON	PRICE ea.	POLY	PRICE ea.			
T18	\$1.73	T18P	\$1.83	1/8"	1/8"	1/8"
T3160	\$1.91			3/16"	3/16"	3/16"
T14	\$1.29	T14P	\$1.86	1/4"	1/4"	1/4"
T38	\$1.35	T38P	\$1.91	3/8"	3/8"	3/8"
T3812	\$1.41	T3812P	\$1.96	1/2"	1/2"	3/8"
T12	\$1.39	T12P	\$1.90	1/2"	1/2"	1/2"
T58	\$1.49	T58P	\$2.01	5/8"	5/8"	5/8"
T3412	\$1.49	T3412P	\$2.01	1/2"	1/2"	3/4"
T34	\$1.76	T34P	\$2.00	3/4"	3/4"	3/4"
T100	\$3.09	T100P	\$3.13	1"	1"	1"
T114	\$4.50	T114P	\$4.58	1-1/4"	1-1/4"	1-1/4"
T112	\$5.48	T112P	\$5.48	1-1/2"	1-1/2"	1-1/2"
T200	\$12.34	T200P	\$12.49	2"	2"	2"



Straight Adapter

Used in fluid plumbing applications requiring straight connection to a Male NPT fitting and a hose.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT x HOSE BARB	
AF1414	\$2.10			1/4"	1/4"
AF1438	\$4.94			1/4"	3/8"
AF3838	\$5.65	AF3838P	\$6.06	3/8"	3/8"
		AF3812P	\$4.73	3/8"	1/2"
AF1212	\$1.44	AF1212P	\$1.59	1/2"	1/2"
AF1238	\$1.73	AF1238P	\$1.74	1/2"	3/8"
		AF1234P	\$4.88	1/2"	3/4"
AF3412	\$5.80	AF3412P	\$5.19	3/4"	1/2"
AF3458	\$1.82	AF3458P	\$1.84	3/4"	5/8"
AF3434	\$1.82	AF3434P	\$1.84	3/4"	3/4"



Cross Barb

Used in fluid applications requiring the connection of four hoses. Commonly called a junction fitting.

PART #				HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	
X14	\$1.43	X14P	\$1.60	1/4"



Flat Seat Hose Barb

Used with swivel nut B3400 and washer W406 shown on page 31 of this catalog. Combining the three pieces allows for a swivel connection of common size hoses.

PART #				HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	BARB x FLAT SEAT
C1800	\$0.92	C1800P	\$0.98	1/8"
C1400	\$0.70	C1400P	\$0.97	1/4"
C3800	\$0.69	C3800P	\$0.99	3/8"
C1200	\$0.70	C1200P	\$0.99	1/2"
C5800	\$0.69	C5800P	\$0.99	5/8"
C3400	\$0.70	C3400P	\$1.00	3/4"





Reducer Bushing

Used in fluid plumbing applications to connect a Female NPT thread to a reduced size of a Male NPT fitting.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x	Female NPT
RB1418	\$1.25	RB1418P	\$1.44	1/4"	1/8"
RB3818	\$1.29	RB3818P	\$1.47	3/8"	1/8"
RB3814	\$1.25	RB3814P	\$1.44	3/8"	1/4"
RB1218	\$1.94	RB1218P	\$2.07	1/2"	1/8"
RB1214	\$1.33	RB1214P	\$1.50	1/2"	1/4"
RB1238	\$1.31	RB1238P	\$1.49	1/2"	3/8"
RB3418	\$1.44	RB3418P	\$1.59	3/4"	1/8"
RB3414	\$1.72	RB3414P	\$1.91	3/4"	1/4"
RB3438	\$1.83	RB3438P	\$1.86	3/4"	3/8"
RB3412	\$1.34	RB3412P	\$1.58	3/4"	1/2"
RB1012	\$2.41	RB1012P	\$2.44	1"	1/2"
RB1034	\$1.65	RB1034P	\$1.69	1"	3/4"
RB11434	\$2.98	RB11434P	\$3.23	1-1/4"	3/4"
RB1141	\$2.84	RB1141P	\$3.13	1-1/4"	1"
RB11234	\$3.29	RB11234P	\$3.46	1-1/2"	3/4"
RB1121	\$3.22	RB1121P	\$3.41	1-1/2"	1"
RB112114	\$2.86	RB112114P	\$3.99	1-1/2"	1-1/4"
RB2001	\$5.73	RB2001P	\$5.81	2"	1"
RB200114	\$4.36	RB200114P	\$4.41	2"	1-1/4"
RB200112	\$3.94	RB200112P	\$3.99	2"	1-1/2"
RB300200	\$7.03	RB300200P	\$9.92	3"	2"



Elbow

Used in fluid plumbing applications to connect to Male NPT fittings at 90 degrees.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT x 90 DEGREE	Female NPT
ELF12	\$3.94	ELF12P	\$3.99	1/2"	
ELF34	\$4.47	ELF34P	\$4.53	3/4"	
ELF100	\$6.36	ELF100P	\$6.44	1"	
ELF114	\$8.62	ELF114P	\$8.73	1-1/4"	
ELF112	\$10.25	ELF112P	\$10.38	1-1/2"	
ELF200	\$15.02	ELF200P	\$14.75	2"	

Coupling

Used in fluid plumbing applications to connect two Male NPT fittings.



PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT	
		FTC1800P	\$5.59	1/8"	
FTC14	\$6.00	FTC14P	\$6.33	1/4"	
FTC38	\$6.00			3/8"	
FTC12	\$4.16	FTC12P	\$4.37	1/2"	
FTC34	\$5.06	FTC34P	\$5.12	3/4"	
FTC3412	\$4.13			3/4" x 1/2"	
FTC100	\$5.74	FTC100P	\$5.82	1"	
FTC114	\$8.08	FTC114P	\$8.17	1-1/4"	
FTC112	\$9.63	FTC112P	\$9.74	1-1/2"	
FTC200	\$14.22	FTC200P	\$14.39	2"	

Plug

Use in conjunction with a hose clamp and quality thread sealant.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x HEX	
F1800	\$0.65	F1800P	\$0.94	1/8"	
F1400	\$0.65	F1400P	\$0.94	1/4"	
F3800	\$0.69	F3800P	\$0.97	3/8"	
F1200	\$0.70	F1200P	\$0.98	1/2"	
F5800	\$0.46			5/8"	
F3400	\$0.78	F3400P	\$1.04	3/4"	
F1000	\$1.00	F1000P	\$1.13	1"	
F1014	\$1.55	F1014P	\$1.57	1-1/4"	
F112	\$4.32	F112P	\$4.51	1-1/2"	
F200	\$5.27			2"	



Nipple

Used in fluid plumbing application to connect two Female NPT fittings.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x Male NPT	
M1800	\$0.97	M1800P	\$0.93	1/8"	
M1400	\$0.68	M1400P	\$0.95	1/4"	
M3800	\$0.80	M3800P	\$1.00	3/8"	
M1200	\$0.79	M1200P	\$1.02	1/2"	
M3400	\$0.98	M3400P	\$1.15	3/4"	
M1000	\$1.65	M1000P	\$1.69	1"	
M1140	\$3.09	M1140P	\$3.34	1-1/4"	
M1120	\$3.74	M1120P	\$3.80	1-1/2"	
M2000	\$5.38	M2000P	\$5.45	2"	



Reducing Nipple

Used in fluid plumbing application to connect two Female NPT fittings.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x Male NPT	
RM1438	\$0.95	RM1438P	\$0.99	1/4"	3/8"
RM3818	\$1.13			3/8"	1/8"
RM3812	\$1.02	RM3812P	\$1.04	3/8"	1/2"
RM38116	\$1.02	RM38116P	\$1.04	3/8"	11/16" UN
RM12116	\$1.02	RM12116P	\$1.04	1/2"	11/16" UN
RM1214	\$0.95	RM1214P	\$1.02	1/2"	1/4"
RM3438	\$1.82	RM3438P	\$2.03	3/4"	3/8"
RM3412	\$1.02	RM3412P	\$1.08	3/4"	1/2"
RM34116	\$1.08	RM34116P	\$1.15	3/4"	11/16" UN
RM1141	\$2.43	RM1141P	\$3.23	1-1/4"	1"





Tee

Used in fluid plumbing applications requiring the connection of three fittings or pipes all having Male NPT threads.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT	
TT14	\$5.27	TT14P	\$5.40	1/4"	
TT12	\$5.02	TT12P	\$5.08	1/2"	
TT34	\$6.99	TT34P	\$7.07	3/4"	
TT100	\$8.89	TT100P	\$8.99	1"	
TT114	\$12.22	TT114P	\$12.37	1-1/4"	
TT112	\$13.72	TT112P	\$13.89	1-1/2"	
TT200	\$18.76	TT200P	\$18.99	2"	
		TT300P	\$74.92	3"	



Tee with Gauge Port

Used in fluid plumbing applications requiring the connection of three fittings or pipes all having Male NPT threads. Special port extends from center of body for a gauge.

PART #				THREAD	PORT
NYLON	PRICE ea.	POLY	PRICE ea.	Female NPT	
TT1218	\$6.99	TT1218P	\$8.07	1/2"	1/8"
TT1214	\$6.99	TT1214P	\$7.91	1/2"	1/4"
TT3418	\$8.90	TT3418P	\$9.84	3/4"	1/8"
TT3414	\$8.90	TT3414P	\$9.84	3/4"	1/4"
TT10014	\$11.07	TT10014P	\$10.74	1"	1/4"
TT11414	\$12.18			1-1/4"	1/4"
TT11214	\$13.65			1-1/2"	1/4"



Street Elbow

Used in fluid plumbing applications to connect a Female NPT fitting and a Male NPT fitting at 90 degrees. This fitting is very useful when working space is a minimum.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x 90 Degree	Female NPT
SE14	\$3.31	SE14P	\$5.36	1/4"	1/4"
SE38	\$3.31	SE38P	\$3.69	3/8"	3/8"
SE12	\$3.31	SE12P	\$3.69	1/2"	1/2"
SE1234	\$6.95	SE1234P	\$7.59	1/2"	3/4"
SE34	\$4.89	SE34P	\$4.95	3/4"	3/4"
SE100	\$6.96	SE100P	\$7.05	1"	1"
SE114	\$8.76	SE114P	\$8.88	1-1/4"	1-1/4"
SE112	\$10.45	SE112P	\$10.58	1-1/2"	1-1/2"
SE200	\$12.51	SE200P	\$12.65	2"	2"

Adapter

Garden Hose fitting used to connect a Female GHT fitting to a Male NPT fitting.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Male GHT x Female NPT	
G3412	\$2.74	G3412P	\$3.06	3/4"	1/2"
G3434	\$2.71	G3434P	\$3.02	3/4"	3/4"



Adapter

Garden Hose fitting used to connect a Female NPT fitting to a Male GHT fitting.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	Male NPT x 3/4" Female GHT	
H3434	\$2.67	H3434P	\$2.99	3/4"	3/4"



Adapter

Garden Hose fitting used to connect two female fittings.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	Male GHT x Male NPT	
E3412	\$1.02	E3412P	\$1.08	3/4"	1/2"
E3438	\$1.82	E3438P	\$2.03	3/4"	3/8"
E3434	\$1.00	E3434P	\$1.25	3/4"	3/4"
EE3434	\$1.31	EE3434P	\$1.37	3/4"	3/4" Male GHT



Adapter

Garden Hose fitting used to connect a Female GHT to a Male GHT fitting.
Female GHT requires a W 406 washer.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Male GHT x 3/4" Female GHT	
I3434	\$2.64	I3434P	\$2.98	3/4"	3/4"



Coupling

Garden Hose fitting used to connect a Male GHT to a Male NPT fitting.
Female GHT requires a W 406 washer.

PART #				THREAD	THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Female GHT x Female NPT	
J3412	\$2.72	J3412P	\$3.04	3/4"	1/2"





Cap

Female thread x Closed end. Requires W 406 washer.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	Female GHT & Female NPS
N3400	\$1.10	N3400P	\$1.11	3/4" Female GHT
N3400F	\$1.09	N3400FP	\$1.11	3/4" Female NPS



Plug

Garden Hose fitting used to plug off a Female NPT fitting.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Male GHT x HEX
F3400GHT	\$0.86	F3400GHTP	\$1.05	3/4"



Tee Adapter

Garden Hose fitting used to connect 3/4" Female GHT fitting to two hoses.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	Male GHT x HOSE BARB	
MT3438G	\$1.78	MT3438GP	\$2.44	3/4"	3/8"
MT3412G	\$1.88	MT3412GP	\$2.53	3/4"	1/2"
MT3434G	\$2.05	MT3434GP	\$2.69	3/4"	3/4"



Adapter

Garden Hose fitting used to connect 3/4" Female GHT fitting to a hose.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Male GHT x Hose Barb	
D3414	\$0.95	D3414P	\$1.08	3/4"	1/4"
D3438	\$0.98	D3438P	\$1.08	3/4"	3/8"
D3412	\$1.00	D3412P	\$1.15	3/4"	1/2"
D3458	\$1.04	D3458P	\$1.15	3/4"	5/8"
D3434	\$1.12	D3434P	\$1.14	3/4"	3/4"
D3410	\$1.24	D3410P	\$1.25	3/4"	1"



Elbow

Garden Hose fitting used to connect 3/4" Female GHT to a hose at 90 degrees.

PART #				THREAD	HOSE BARB
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Male GHT x 90 degree	
EL3438G	\$1.33	EL3438GP	\$1.35	3/4"	3/8"
EL3412G	\$1.31	EL3412GP	\$1.34	3/4"	1/2"
EL3458G	\$1.47	EL3458GP	\$1.50	3/4"	5/8"
EL3434G	\$1.53	EL3434GP	\$1.55	3/4"	3/4"
EL3410G	\$1.55	EL3410GP	\$1.57	3/4"	1"

Reducing Nipple

Garden Hose fitting used to connect two Female PT fittings.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	MALE GHT X MALE	
RM34116G	\$1.14	RM34116GP	\$1.17	3/4"	11/16" UN



Swivel Nut

Garden Hose fitting used to connect a hose using a C series fitting with a washer.

PART #				THREAD	
NYLON	PRICE ea.	POLY	PRICE ea.	3/4" Female GHT	
B3400	\$0.76	B3400P	\$1.02	3/4" Female GHT	
B3400F	\$0.80	B3400FP	\$1.02	3/4" Female NPS	



Washers

Vinyl Garden Hose washer. Used with all 3/4" Female GHT fittings in this catalog.

PART #	PRICE ea.	DESCRIPTION
W406	\$0.18	Vinyl Garden Hose Washer
W40650S	\$1.59	Vinyl Garden Hose Washer with 50 mesh screen



3-Piece Barb Assembly

Garden Hose fitting with swivel connection. Used to connect 3/4" Female GHT to a hose. Washer is vinyl in both nylon and poly assemblies.

PART #				SWIVEL	HOSE BARB	WASHER
NYLON	PRICE ea.	POLY	PRICE ea.			
B3414W	\$2.16	B3414WP	\$2.24	B3400	1/4"	W 406
B3438W	\$2.15	B3438WP	\$2.26	B3400	3/8"	W 406
B3412W	\$2.16	B3412WP	\$2.69	B3400	1/2"	W 406
B3458W	\$2.15	B3458WP	\$2.66	B3400	5/8"	W 406
B3434W	\$2.17	B3434WP	\$2.70	B3400	3/4"	W 406



Garden Hose Shutoff Valves

Single and double garden hose valves with 3/4" GHT. 100 PSI maximum operating pressure. ABS construction.

PART #	PRICE ea.	DESCRIPTION
G3434V	\$7.66	3/4" Female GHT (inlet) x 3/4" Male GHT (1 outlet)
G3434YV	\$10.65	3/4" Female GHT (inlet) x 3/4" Male GHT (2 outlets)



G3434V



G3434YV



Hex Nut

Used to lock nozzle fitting on page 32 into Boom Clamp fittings.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	
N1116	\$0.45	N1116P	\$0.64	11/16" Female UN



Straight Adapter

Thread 11/16" male UN x hose barb, nut included. Used on the terminating ends of spray boom or a boom using a manifold.

PART #				HOSE BARB SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	
3838D	\$1.33	3838DP	\$1.35	3/8"
3812D	\$1.36	3812DP	\$1.39	1/2"
3834D	\$1.71	3834DP	\$1.68	3/4"



Elbow

Thread 11/16" male UN x hose barb, nut included. Used on the terminating ends of spray boom.

PART #				HOSE BARB SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	
NTL38	\$1.73	NTL38P	\$1.76	3/8"
NTL12	\$1.81	NTL12P	\$1.83	1/2"
NTL34	\$1.89	NTL34P	\$1.92	3/4"



Cross

Thread 11/16" male UN x hose barb, nut included. Used in the center of boom sections as a main feed line.

PART #				HOSE BARB SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	
T38C	\$1.60	T38CP	\$1.97	3/8"
T12C	\$1.89	T12CP	\$2.03	1/2"
T34C	\$2.00	T34CP	\$2.17	3/4"



Tee

Thread 11/16" male UN x hose barb, nut included. Used between the main feed lines and termination end of boom sections.

PART #				HOSE BARB SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	
NTT38	\$1.87	NTT38P	\$1.91	3/8"
NTT12	\$1.91	NTT12P	\$1.94	1/2"
NTT34	\$2.33	NTT34P	\$2.36	3/4"

Spray Tip Blank

Blanks for Boom Drops, used when changing row spacing.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	11/16" Female UN
8028	\$0.60	8028P	\$0.67	



Male Adapter

Allows 1/4" female boom drops to be converted to accept 11/16" UN swivel cap.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	11/16" Male UN x 1/4" Male NPT
NB164	\$0.82	NB164P	\$0.97	
NB168	\$0.86			



Boom Clamp

Boom Clamps fit all nozzle thread fittings on page 31-32 of this catalog.

PART #				SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	Fits 1" Round or Square Tubing
B111	\$1.91	B111P	\$2.09	
B11114	\$2.04	B11114P	\$2.24	



Female Adapter

Allows 11/16" UN nozzle fittings on page 31-32 to be converted to accept 1/4" Male NPT flood tips.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	11/16" Female UN x 1/4" Female NPT
1116A	\$1.51	1116AP	\$1.54	



Swivel Nut

For use with Male Adapter on this page and all nozzle fittings on page 31-32. Fastens spray tips to nozzle fittings.

PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	11/16" Female UN
8027	\$0.58	8027P	\$0.67	
8027W	\$0.87	8027WP	\$0.89	



Metering Barb

Used to run a line from spray boom to a gauge visible to operate for monitoring boom pressure. Connects to Male Adapter on this page and all nozzle fittings on page 32 with a 8027 swivel nut.

PART #				BARB SIZE
NYLON	PRICE ea.	POLY	PRICE ea.	1/4"
K8414	\$0.65	K8414P	\$0.67	
K8438	\$0.69	K8438P	\$0.70	
K8412	\$0.73	K8412P	\$0.74	1/2"



ST

•standard flat spray nozzles

Spray angle: 80°, 110°
Material: POM, POM/Ceramic,



ST

Features

- Standard flat spray nozzle
- **Medium drift potential**
- Medium droplets
- Best performance range 30-75 psi
- Fits 8mm caps, #Y8253048 series

Range of application

Herbicides, fungicides, insecticides, liquid fertilizers, plant growth regulators

Main benefits of ST nozzles

- An economical choice
- Color coded for agricultural standards

	 psi	Capacity per nozzle		Gallons/Acre							
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph
ST 8001 11001 (50/100 M)	30	0.09	11.0	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2
	40	0.10	13.0	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5
	50	0.11	14.0	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7
	60	0.12	15.0	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0
ST 80015 110015 (50/100 M)	30	0.13	17.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2
	40	0.15	19.0	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7
	50	0.17	22.0	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2
	60	0.18	23.0	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5
ST 8002 11002 (50 M)	30	0.17	22.0	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2
	40	0.20	26.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0
	50	0.22	28.0	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4
	60	0.24	31.0	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9
ST 8003 11003 (50 M)	30	0.26	33.0	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4
	40	0.30	38.0	22.0	17.8	14.9	12.7	11.1	9.9	8.9	7.4
	50	0.34	44.0	25.0	20.0	16.8	14.4	12.6	11.2	10.1	8.4
	60	0.37	47.0	27.0	22.0	18.3	15.7	13.7	12.2	11.0	9.2
ST 8004 11004 (50 M)	30	0.35	45.0	26.0	21.0	17.3	14.9	13.0	11.6	10.4	8.7
	40	0.40	51.0	30.0	24.0	19.8	17.0	14.9	13.2	11.9	9.9
	50	0.45	58.0	33.0	27.0	22.0	19.1	16.7	14.9	13.4	11.1
	60	0.49	63.0	36.0	29.0	24.0	21.0	18.2	16.2	14.6	12.1
ST 8005 11005 (50/30 M)	30	0.43	55.0	32.0	26.0	21.0	18.2	16.0	14.2	12.8	10.6
	40	0.50	64.0	37.0	30.0	25.0	21.0	18.6	16.5	14.9	12.4
	50	0.56	72.0	42.0	33.0	28.0	24.0	21.0	18.5	16.6	13.9
	60	0.61	78.0	45.0	36.0	30.0	26.0	23.0	20.0	18.1	15.1
ST 8006 11006 (50/30 M)	30	0.52	67.0	39.0	31.0	26.0	22.0	19.3	17.2	15.4	12.9
	40	0.6	77.0	45.0	36.0	30.0	25.0	22.0	19.8	17.8	14.9
	50	0.67	86.0	50.0	40.0	33.0	28.0	25.0	22.0	19.9	16.6
	60	0.73	93.0	54.0	43.0	36.0	31.0	27.0	24.0	22.0	18.1
ST 8008 11008 (50/30 M)	30	0.69	88.0	51.0	41.0	34.0	29.0	26.0	23.0	20.0	17.1
	40	0.80	102.0	59.0	48.0	40.0	34.0	30.0	26.0	24.0	19.8
	50	0.89	114.0	66.0	53.0	44.0	38.0	33.0	29.0	26.0	22.0
	60	0.98	125.0	73.0	58.0	49.0	42.0	36.0	32.0	29.0	24.0
	75	1.09	140.0	81.8	65.0	54.9	47.0	40.3	35.8	32.5	26.9

POM List Price ea.

ST11001	\$2.19
ST110015	\$2.19
ST11002	\$2.19
ST11003	\$2.19
ST11004	\$2.19
ST11005	\$2.19
ST11006	\$2.19
ST11008	\$2.19

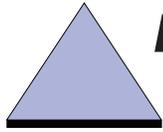
Sample order

Type + spray angle + nozzle size + material = order number
 ST 110° 06 POM = ST11006
 ST 110° 06 C (Ceramic) = ST11006C

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.



PARTNERS IN SPRAYING



AD

•anti-drift flat spray nozzles

Spray angle: 110°
90°, 120° available upon request
Material: POM, POM/Ceramic



AD

Features

- one-piece nozzle with removable insert and integrated pre-chamber
- **Low drift potential**
- Medium to coarse droplet size
- Best performance range 20-90 psi for row crops
30-290 psi for orchard, vineyard and grove crops
- Fits 8mm caps, #Y8253048 series

Range of application

Herbicides, fungicides, insecticides, plant growth regulators and liquid fertilizers (up to 35 psi)

ASABE S-572-1	psi	Capacity per nozzle		Gallons/Acre													
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph	16 mph	18 mph			
AD 110015 (50/100 M)	M 30	0.13	17	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1			
	M 40	0.15	19	11.1	8.9	7.4	6.4	5.6	5	4.5	3.7	3.2	2.8	2.5			
	M 50	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5	4.2	3.6	3.2	2.8			
	F 60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8	3.3	3			
	F 70	0.2	26	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5	4.2	3.7	3.3			
	F 80	0.21	27	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5			
AD 11002 (50 M)	M 30	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5	4.2	3.6	3.2	2.8			
	M 40	0.2	26	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5	4.2	3.7	3.3			
	M 50	0.22	28	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6			
	M 60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4			
	F 70	0.26	33	19.3	15.4	12.9	11	9.7	8.6	7.7	6.4	5.5	4.8	4.3			
	F 80	0.28	36	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6			
AD 11003 (50 M)	C 30	0.26	33	19.3	15.4	12.9	11	9.7	8.6	7.7	6.4	5.5	4.8	4.3			
	C 40	0.3	38	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5			
	M 50	0.34	44	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6			
	M 60	0.37	47	27	22	18.3	15.7	13.7	12.2	11	9.2	7.8	6.9	6.1			
	M 70	0.4	51	30	24	19.8	17	14.9	13.2	11.9	9.9	8.5	7.4	6.6			
	M 80	0.42	54	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9			
AD 11004 (50 M)	F 90	0.45	58	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4			
	C 30	0.35	45	26	21	17.3	14.9	13	11.6	10.4	8.7	7.4	6.4	5.8			
	C 40	0.4	51	30	24	19.8	17	14.9	13.2	11.9	9.9	8.5	7.4	6.6			
	C 50	0.45	58	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4			
	M 60	0.49	63	36	29	24	21	18.2	16.2	14.6	12.1	10.4	9.1	8.1			
	M 70	0.53	68	39	31	26	22	19.7	17.5	15.7	13.1	11.2	9.8	8.7			
AD 11004 (50 M)	M 80	0.57	73	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4			
	M 90	0.6	77	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9			

Sample order

Type + spray angle + nozzle size + material = order number
 AD 110° 02 POM = AD11002
 AD 110° 02 C (Ceramic) = AD11002C

ASABE S-572.1

Droplet size classification

- XF** Extremely fine
- VF** Very fine
- F** Fine
- M** Medium
- C** Coarse
- VC** Very coarse
- XC** Extremely coarse
- UC** Ultra coarse

Classifications are subject to change

POM

List Price ea.

AD110015	\$6.29
AD11002	\$6.29
AD11003	\$6.29
AD11004	\$6.29

SPRAY TIPS & COMPONENT PARTS

ES

•even flat spray nozzles

Spray angle: 80°
90° available upon request
Material: POM, Brass



ES



ES-B

Features

- Even distribution 80°, 90° flat spray nozzle
- **Medium drift potential**
- Best performance range 15-60 psi
- Short spray height pattern

Range of application

Ideal for banding and tillage implements

Application-rate reduction

Be sure to adjust your gpa rate once you determine the surface that will be treated.

Band height inches	Spray width inches	Application rate* (in % for a row spacing, S, of		
		20"	30"	40"
3	4	20	13	10
4	6	30	20	15
5	8	40	27	20
6	10	50	33	25

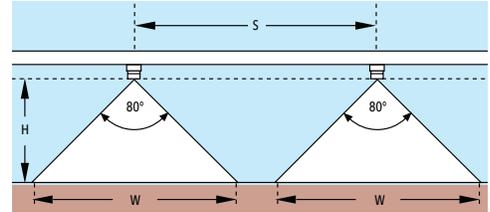
*Percentages in comparison with full area treatment

POM	List Price ea.
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ES8002	\$4.76
ES8004	\$4.76
ES8006	\$4.76
ES8008	\$4.76

BRASS	List Price ea.
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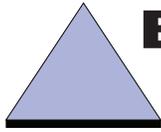
ES8001B	\$6.96
ES80015B	\$6.96
ES8002B	\$6.96
ES8003B	\$6.96
ES8004B	\$6.96
ES8005B	\$6.96
ES8006B	\$6.96
ES8008B	\$6.96



Nozzle Alignment

Lechler's ES even flat spray nozzles enable extremely short spray heights (H), thus extensively avoiding band drift.

The width of the spray band (W) can be varied by altering the spray height (H) and/or rotating the spray axis to change the spray offset. This presumes the nozzle spacing (S) is constant.



ES

•even flat spray nozzles

CONT....

SPRAY TIPS & COMPONENT PARTS

 ()	 psi	Capacity per nozzle		Gallons/Acre						
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph
ES 8001 (100/50 M)	15	0.061	8	4.5	3.6	3	2.6	2.3	2	1.8
	20	0.071	9	5.3	4.2	3.5	3	2.6	2.3	2.1
	30	0.087	11	6.5	5.2	4.3	3.7	3.2	2.9	2.6
	40	0.10	13	7.4	5.9	5	4.2	3.7	3.3	3
	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.6	3.3
	60	0.12	15	8.9	7.1	5.9	5.1	4.5	4	3.6
ES 80015 (100/50 M)	15	0.092	12	6.8	5.5	4.6	3.9	3.4	3	2.7
	20	0.11	14	8.2	6.5	5.4	4.7	4.1	3.6	3.3
	30	0.13	17	9.7	7.7	6.4	5.5	4.8	4.3	3.9
	40	0.15	19	11.1	8.9	7.4	6.4	5.6	5	4.5
	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5
	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.9	5.3
ES 8002 (50 M)	15	0.12	15	8.9	7.1	5.9	5.1	4.5	4	3.6
	20	0.14	18	10.4	8.3	6.9	5.9	5.2	4.6	4.2
	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5
	40	0.20	26	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.22	28	16.3	13.1	10.9	9.3	8.2	7.3	6.5
	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.9	7.1
ES 8003 (50 M)	15	0.18	23	13.4	10.7	8.9	7.6	6.7	5.9	5.3
	20	0.21	27	15.6	12.5	10.4	8.9	7.8	6.9	6.2
	30	0.26	33	19.3	15.4	12.9	11	9.7	8.6	7.7
	40	0.30	38	22	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.34	44	25	20	16.8	14.4	12.6	11.2	10.1
	60	0.37	47	27	22	18.3	15.7	13.7	12.2	11
ES 8004 (50 M)	15	0.24	31	18	14.3	11.9	10.2	8.9	7.9	7.1
	20	0.28	36	21	16.6	13.9	11.9	10.4	9.2	8.3
	30	0.35	45	26	21	17.3	14.9	13	11.6	10.4
	40	0.40	51	30	24	19.8	17	14.9	13.2	11.9
	50	0.45	58	33	27	22	19.1	16.7	14.9	13.4
	60	0.49	63	36	29	24	21	18.2	16.2	14.6
ES 8005 (50/30 M)	15	0.31	40	23	18.4	15.3	13.2	11.5	10.2	9.2
	20	0.35	45	26	21	17.3	14.9	13	11.6	10.4
	30	0.43	55	32	26	21	18.2	16	14.2	12.8
	40	0.50	64	37	30	25	21	18.6	16.5	14.9
	50	0.56	72	42	33	28	24	21	18.5	16.6
	60	0.61	78	45	36	30	26	23	20	18.1
ES 8006 (50/30 M)	15	0.37	47	27	22	18.3	15.7	13.7	12.2	11
	20	0.42	54	31	25	21	17.8	15.6	13.9	12.5
	30	0.52	67	39	31	26	22	19.3	17.2	15.4
	40	0.60	77	45	36	30	25	22	19.8	17.8
	50	0.67	86	50	40	33	28	25	22	19.9
	60	0.73	93	54	43	36	31	27	24	22
ES 8008 (50/30 M)	15	0.49	63	36	29	24	21	18.2	16.2	14.6
	20	0.57	73	42	34	28	24	21	18.8	16.9
	30	0.69	88	51	41	34	29	26	23	20
	40	0.80	102	59	48	40	34	30	26	24
	50	0.89	114	66	53	44	38	33	29	26
	60	0.98	125	73	58	49	42	36	32	29

Sample order
 Type + spray angle + nozzle size + material = order number
 ES 80° 02 Brass = ES8002B
 ES 80° 02 POM = ES8002

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.

LU

•multi range universal flat spray nozzles

Spray angle: 80°, 110°
90°, 120° available upon request

Material: POM, POM/Ceramic,
POM/Stainless Steel

SPRAY TIPS & COMPONENT PARTS

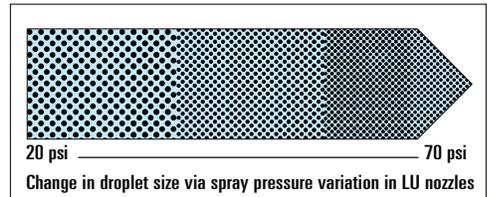
LU
LU-S
LU-C

Features

- Multi range universal flat spray nozzle
- **Low to medium drift potential**
- Coarse to fine droplets
- Even droplet distribution spectrum at higher pressures
- Best performance range 20-75 psi
- Low drift applications up to 40 psi
- Fits 8 mm cap, #Y8253048 series

Range of application
Herbicides, plant growth regulators

POM		List Price ea.
LU8001		\$3.55
LU80015		\$3.55
LU8002		\$3.55
LU8003		\$3.55
LU8004		\$3.55
LU8005		\$3.55
LU8006		\$3.55
LU8008		\$3.55
STAINLESS STEEL		
LU8001S		\$9.62
LU80015S		\$9.62
LU8002S		\$9.62
LU8003S		\$9.62
LU8004S		\$9.62
LU8005S		\$9.62
LU8006S		\$9.62
LU8008S		\$9.62
CERAMIC		
LU8001C		\$11.35
LU80015C		\$11.35
LU8002C		\$11.35
LU8003C		\$11.35
LU8004C		\$11.35
LU8005C		\$11.35
LU8006C		\$11.35
LU8008C		\$11.35
POM		
LU11001		\$3.55
LU110015		\$3.55
LU11002		\$3.55
LU11003		\$3.55
LU11004		\$3.55
LU11005		\$3.55
LU11006		\$3.55
LU11008		\$3.55
CERAMIC		
LU11001C		\$11.35
LU110015C		\$11.35
LU11002C		\$11.35
LU11003C		\$11.35
LU11004C		\$11.35
LU11005C		\$11.35
LU11006C		\$11.35
LU11008C		\$11.35

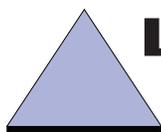


Application-specific adjustment of droplet size characteristics

- LU nozzles are characterized by an optimized (well balanced) droplet size spectrum.
- The gallons per acre rate required for a given range of application, and the corresponding droplet size category (coarse, medium or fine droplets) are achieved by using nozzles of the appropriate size and varying the spray pressure as necessary.



PARTNERS IN SPRAYING



LU

•multi range universal flat spray nozzles

CONT....

 ASABE S-572-1	 psi	Capacity per nozzle			Gallons/Acre							
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	
LU 8001 11001 (50/100 M)	M	15	0.061	8	4.5	3.6	3	2.6	2.3	1.8	1.5	1.3
	M	20	0.071	9	5.3	4.2	3.5	3	2.6	2.1	1.8	1.5
	M	30	0.087	11	6.5	5.2	4.3	3.7	3.2	2.6	2.2	1.8
	F	40	0.1	13	7.4	5.9	5	4.2	3.7	3	2.5	2.1
	F	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3
	F	60	0.12	15	8.9	7.1	5.9	5.1	4.5	3.6	3	2.5
LU 80015 110015 (50/100 M)	M	15	0.092	12	6.8	5.5	4.6	3.9	3.4	2.7	2.3	2
	M	20	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3
	M	30	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8
	M	40	0.15	19	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2
	F	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6
	F	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8
LU 8002 11002 (50 M)	M	15	0.12	15	8.9	7.1	5.9	5.1	4.5	3.6	3	2.5
	M	20	0.14	18	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3
	M	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6
	M	40	0.2	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2
	M	50	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7
	F	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1
LU 8003 11003 (50 M)	C	15	0.18	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8
	M	20	0.21	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5
	M	30	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5
	M	40	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4
	M	50	0.34	44	25	20	16.8	14.4	12.6	10.1	8.4	7.2
	M	60	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8
LU 8004 11004 (50 M)	C	15	0.24	31	18	14.3	11.9	10.2	8.9	7.1	5.9	5.1
	C	20	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9
	C	30	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4
	M	40	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5
	M	50	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5
	M	60	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4
LU 8005 11005 (50/30 M)	VC	15	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6
	C	20	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4
	C	30	0.43	55	32	26	21	18.2	16	12.8	10.6	9.1
	C	40	0.5	64	37	30	25	21	18.6	14.9	12.4	10.6
	M	50	0.56	72	42	33	28	24	21	16.6	13.9	11.9
	M	60	0.61	78	45	36	30	26	23	18.1	15.1	12.9
LU 8006 11006 (50/30 M)	VC	15	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8
	VC	20	0.42	54	31	25	21	17.8	15.6	12.5	10.4	8.9
	C	30	0.52	67	39	31	26	22	19.3	15.4	12.9	11
	C	40	0.6	77	45	36	30	25	22	17.8	14.9	12.7
	C	50	0.67	86	50	40	33	28	25	19.9	16.6	14.2
	M	60	0.73	93	54	43	36	31	27	22	18.1	15.5
LU 8008 11008 (50/30 M)	VC	15	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4
	VC	20	0.57	73	42	34	28	24	21	16.9	14.1	12.1
	VC	30	0.69	88	51	41	34	29	26	20	17.1	14.6
	VC	40	0.8	102	59	48	40	34	30	24	19.8	17
	VC	50	0.89	114	66	53	44	38	33	26	22	18.9
	C	60	0.98	125	73	58	49	42	36	29	24	21

ASABE S-572.1
 Droplet size classification

- XF** Extremely fine
- VF** Very fine
- F** Fine
- M** Medium
- C** Coarse
- VC** Very coarse
- XC** Extremely coarse
- UC** Ultra coarse

Classifications are subject to change

SPRAY TIPS & COMPONENT PARTS

Sample order

Type + spray angle +	nozzle size + material	=	order number
LU 110°	015 POM	=	LU110015
LU 110°	015 S (Stainless Steel)	=	LU110015S
LU 110°	015 C (Ceramic)	=	LU110015C

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.

FT

•flood nozzles

Spray angle: 140°

Material: POM, Stainless Steel upon request

SPRAY TIPS & COMPONENT PARTS

		Capacity per nozzle		Gallons/Acre							
				30" spacing				40" spacing			
		psi	gpm	oz/min	5 mph	6 mph	7 mph	8 mph	5 mph	6 mph	7 mph
FT 1.0 (50 M)	10	0.10	13	3.95	3.30	2.85	2.50	2.95	2.50	2.10	1.9
	20	0.14	18	5.55	4.60	3.95	3.45	4.15	3.45	2.95	2.6
	30	0.18	23	6.95	5.80	4.95	4.35	5.20	4.35	3.70	3.3
	40	0.20	26	7.90	6.60	5.65	4.95	5.95	4.95	4.25	3.7
FT 1.5 (50 M)	10	0.15	20	5.93	4.95	4.28	3.75	4.43	3.75	3.15	2.8
	20	0.21	27	8.33	6.90	5.93	5.18	6.23	5.18	4.43	3.9
	30	0.26	34	10.43	8.70	7.43	6.53	7.80	6.53	5.55	4.9
	40	0.30	38	11.85	9.90	8.48	7.43	8.93	7.43	6.38	5.6
FT 2.0 (50 M)	10	0.20	26	7.9	6.6	5.7	5.0	5.9	5.0	4.2	3.7
	20	0.28	36	11.1	9.2	7.9	6.9	8.3	6.9	5.9	5.2
	30	0.35	45	13.9	11.6	9.9	8.7	10.4	8.7	7.4	6.5
	40	0.40	51	15.8	13.2	11.3	9.9	11.9	9.9	8.5	7.4
FT 2.5 (50/30 M)	10	0.25	32	9.9	8.3	7.1	6.2	7.5	6.2	5.3	4.7
	20	0.36	46	14.0	11.5	10.0	8.8	10.5	8.8	7.6	6.6
	30	0.44	56	17.0	14.5	12.5	11.0	13.0	11.0	9.3	8.1
	40	0.50	64	20.0	16.5	14.0	12.5	15.0	12.5	10.5	9.3
FT 3.0 (50/30 M)	10	0.30	39	11.9	9.9	8.6	7.5	8.9	7.5	6.3	5.6
	20	0.42	54	16.7	13.8	11.9	10.4	12.5	10.4	8.9	7.8
	30	0.53	68	20.9	17.4	14.9	13.1	15.6	13.1	11.1	9.8
	40	0.60	77	23.7	19.8	17.0	14.9	17.9	14.9	12.8	11.1
FT 4.0 (30 M)	10	0.40	52	15.8	13.2	11.4	10.0	11.8	10.0	8.4	7.4
	20	0.56	72	22.2	18.4	15.8	13.8	16.6	13.8	11.8	10.4
	30	0.70	90	27.8	23.2	19.8	17.4	20.8	17.4	14.8	13.0
	40	0.80	102	32	26.4	22.6	19.8	23.8	19.8	17.0	14.8
FT 5.0 (30 M)	10	0.50	64	20	16.5	14.1	12.4	14.9	12.4	10.6	9.3
	20	0.71	91	28	23	20	17.6	21	17.6	15.1	13.2
	30	0.87	111	34	29	25	22	26	22	18.5	16.1
	40	1.00	128	40	33	28	25	30	25	21.0	18.6
FT 7.5 (30 M)	10	0.75	96	30	25	21	19	22	19	15.9	14.0
	20	1.07	137	42	35	30	26	32	26	23	19.8
	30	1.31	167	51	44	38	33	39	33	28	24
	40	1.50	192	60	50	42	38	45	38	32	28
FT 10.0 (30 M)	10	1.00	128	40	33	28	25	30	25	21	19
	20	1.42	182	56	46	40	35	42	35	30	26
	30	1.74	222	68	58	50	44	52	44	37	32
	40	2.00	256	80	66	56	50	60	50	42	37



FT

Features

- Flat spray nozzle
- **Low/Medium drift potential**
- Extremely coarse droplets
- Best performance range 15-45 psi
- Fits round caps, #Y8253051 series

Range of application

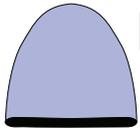
Soil-incorporated herbicides, liquid fertilizers in a drop tube configuration

POM	List Price ea.
FT0.5	\$2.53
FT1.0	\$2.53
FT1.5	\$2.53
FT2.0	\$2.53
FT2.5	\$2.53
FT3.0	\$2.53
FT4.0	\$2.53
FT5.0	\$2.53
FT7.5	\$2.53
FT10	\$2.53

Sample order

Type + spray angle + material = order number
 FT 2.0 140° S (Stainless Steel) = FT2.0S
 FT 2.0 140° POM = FT2.0

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.



FD

•liquid fertilizer nozzles

Spray angle: 130°

Material: POM

	Spray angle @ 40 psi	Gallons/minute @ 40 psi
FD04	130°	0.38
FD05	130°	0.48
FD06	130°	0.65
FD08	130°	0.85
FD10	130°	1.05
FD15	130°	1.60
FD20	130°	2.10

POM	List Price ea.
FD03	\$29.64
FD04	\$29.64
FD05	\$29.64
FD06	\$29.64
FD08	\$29.64
FD10	\$29.64
FD15	\$29.64
FD20	\$29.64



Features

- One piece-nozzle and cap fits most standard nozzle bodies
- **Very low drift potential**
- Coarse droplets minimize crop damage and streaking
- Best performance range 20-60 psi
- ISO coded for agricultural standard

Range of application

Ideal for liquid fertilizer application, turfgrass, irrigation systems

Sample order

Type + nozzle size + material = order number
 FD 06 POM = FD06

SPRAY TIPS & COMPONENT PARTS



ID

•air induction nozzles

Spray angle: 80°, 110°
90°, 120° available upon request
Material: POM, POM/Ceramic



ID

Features

- Venturi air induction flat spray nozzle
- **Extremely low drift potential, even for higher pressures**
- Extra coarse to coarse droplets
- Uniform, large droplet size
- Best performance range
30-115 psi
40-290 psi for orchard/vineyard
- Use with IS end nozzle for boom ends
- Fits 10 mm caps, #Y8253049 series

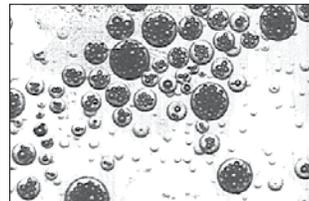
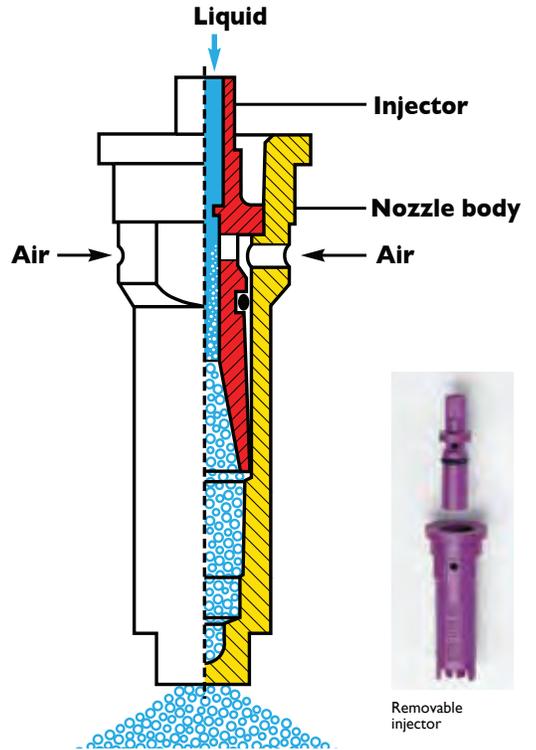
Range of application

Herbicides, fungicides, insecticides, liquid fertilizers, plant growth regulators

POM	List Price ea.
ID8001	\$6.65
ID80015	\$6.65
ID8002	\$6.65
ID80025	\$6.65
ID8003	\$6.65
ID8004	\$6.65
ID8005	\$6.65
ID8006	\$6.65
ID8008	\$6.65
ID11001	\$6.65
ID110015	\$6.65
ID11002	\$6.65
ID110025	\$6.65
ID11003	\$6.65
ID11004	\$6.65
ID11005	\$6.65
ID11006	\$6.65
ID11008	\$6.65

Main benefits of ID nozzles

- Sturdy design
- Easily removable injector for cleaning
- Hard wearing — non clogging
- Very good deposition structure and crop canopy penetration



Aeration effect



PARTNERS IN SPRAYING



 ASABE S-572-1	 psi	Capacity per nozzle		Gallons/Acre								
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	
ID 8001 I1001 (50/100 M)	C	40	0.1	13	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1
	C	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3
	C	60	0.12	15	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5
	C	70	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8
	C	80	0.14	18	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0
	C	90	0.15	19	11.0	8.9	7.4	6.4	5.6	4.5	3.7	3.2
	C	100	0.16	20	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4
ID 80015 I10015 (50/100 M)	VC	30	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8
	VC	40	0.15	19	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2
	C	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6
	C	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8
	C	70	0.2	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2
	C	80	0.21	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5
	C	90	0.23	29	17.7	13.7	11.4	9.8	8.5	6.8	5.7	4.9
ID 8002 I1002 (50 M)	VC	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6
	VC	40	0.2	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2
	VC	50	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7
	C	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1
	C	70	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5
	C	80	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9
	C	90	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4
ID 80025 I10025 (50 M)	C	100	0.32	41	24	19	15.8	13.6	11.9	9.5	7.9	6.8
	VC	30	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7
	VC	40	0.25	32	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3
	VC	50	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9
	VC	60	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6
	VC	70	0.33	42	25	19.6	16.3	14	12.3	9.8	8.2	7
	VC	80	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4
ID 8003 I1003 (50 M)	C	90	0.38	49	28	23	18.8	16.1	14.1	11.3	9.4	8.1
	C	100	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5
	VC	30	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5
	VC	40	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4
	VC	50	0.34	44	25	20	16.8	14.4	12.6	10.1	8.4	7.2
	VC	60	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8
	VC	70	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5
ID 8004 I1004 (50 M)	VC	80	0.42	54	31	25	21	17.8	15.6	12.5	10.4	8.9
	C	90	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5
	C	100	0.47	60	35	28	23	19.9	17.4	14	11.6	10
	XC	30	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4
	VC	40	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5
	VC	50	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5
	VC	60	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4
ID 8005 I1005 (50/30 M)	VC	70	0.53	68	39	31	26	22	19.7	15.7	13.1	11.2
	VC	80	0.57	73	42	34	28	24	21	16.9	14.1	12.1
	VC	90	0.6	77	45	36	30	25	22	17.8	14.9	12.7
	C	100	0.63	81	47	37	31	27	23	18.7	15.6	13.4
	XC	30	0.43	55	32	26	21	18.2	16	12.8	10.6	9.1
	XC	40	0.5	64	37	30	25	21	18.6	14.9	12.4	10.6
	XC	50	0.56	72	42	33	28	24	21	16.6	13.9	11.9
ID 8006 I1006 (50/30 M)	VC	60	0.61	78	45	36	30	26	23	18.1	15.1	12.9
	VC	70	0.66	84	49	39	33	28	25	19.6	16.3	14
	VC	80	0.71	91	53	42	35	30	26	21	17.6	15.1
	VC	90	0.75	96	56	45	37	32	28	22	18.6	15.9
	VC	100	0.79	101	59	47	39	34	29	23	19.6	16.8
	XC	30	0.52	67	39	31	26	22	19.3	15.4	12.9	11
	XC	40	0.6	77	45	36	30	25	22	17.8	14.9	12.7
ID 8008 I1008 (50/30 M)	XC	50	0.67	86	50	40	33	28	25	19.9	16.6	14.2
	XC	60	0.73	93	54	43	36	31	27	22	18.1	15.5
	VC	70	0.79	101	59	47	39	34	29	23	19.6	16.8
	VC	80	0.85	109	63	50	42	36	32	25	21	18
	VC	90	0.9	115	67	53	45	38	33	27	22	19.1
	VC	100	0.95	122	71	56	47	40	35	28	24	20
	XC	30	0.70	90	52	42	34.6	29.8	26	20.8	17.4	14.8
ID 8008 I1008 (50/30 M)	XC	40	0.80	102	60	48	39.6	34	29.8	23.8	19.8	17
	XC	50	0.90	116	66	54	44	38.2	33.4	26.8	22.2	19
	XC	60	0.98	126	72	58	48	42	36.4	29.2	24.2	20.8
	XC	70	1.06	136	78	62	52	44	39.4	31.4	26.2	22.4
	VC	80	1.14	146	84	68	56	48	42	33.8	28.2	24.2
	VC	90	1.20	154	90	72	60	50	44	35.6	29.8	25.4
	VC	100	1.26	162	94	74	62	54	46	37.4	31.2	26.8

SPRAY TIPS & BOOM COMPONENTS

ASABE S-572.1
Droplet size classification

- XF Extremely fine
- VF Very fine
- F Fine
- M Medium
- C Coarse
- VC Very coarse
- XC Extremely coarse
- UC Ultra coarse

Classifications are subject to change

Sample order

Type + spray angle + nozzle size + material = order number
 ID 110° 025 (POM) = IDI10025
 ID 110° 025 C (Ceramic) = IDI10025C

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.

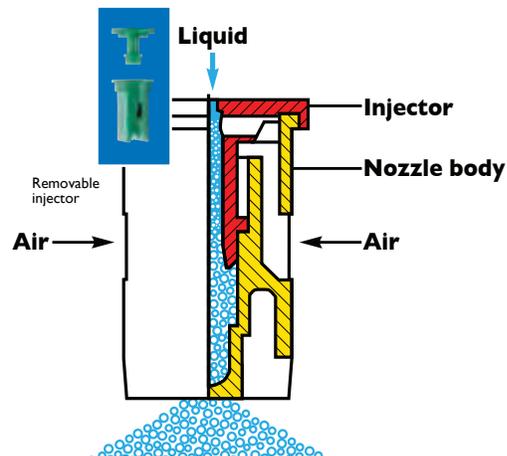
IDK

•venturi air induction nozzles

Spray angle: 110°
90°, 120° available upon request
Material: POM, POM/Ceramic



POM	List Price ea.
IDK11001	\$13.23
IDK110015	\$13.23
IDK11002	\$13.23
IDK110025	\$13.23
IDK11003	\$13.23
IDK11004	\$13.23
IDK11005	\$13.23
CERAMIC	
IDK11003C	\$34.45
IDK11004C	\$34.45
IDK11005C	\$34.45



Features

- Venturi air induction flat spray nozzle
- **Very low drift potential**
- Very coarse to medium droplets
- Best performance range 25-90 psi
15-90 psi for size 05
30-290 psi for orchard/vineyard
- Fits 8 mm caps,
#Y8253048 series

Range of application

Herbicides, fungicides, insecticides,
liquid fertilizers, plant growth
regulators

Main benefits of IDK nozzles

- Sturdy design
- Removable fixed position injector
- Channel design minimizes clogging
- Compact, one-piece nozzle design
- Operates at lower relative pressures
than full length air induction nozzles
- Very good deposition structure and
crop canopy penetration

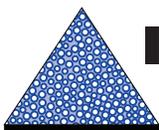
ASABE S-572.1 Droplet size classification

XF	Extremely fine
VF	Very fine
F	Fine
M	Medium
C	Coarse
VC	Very coarse
XC	Extremely coarse
UC	Ultra coarse

Classifications are subject to change



PARTNERS IN SPRAYING



IDK

•venturi air induction nozzles

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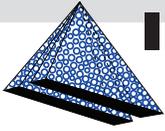
SPRAY TIPS & BOOM COMPONENTS

	ASABE S-572-1		Capacity per nozzle		Gallons/Acre								
			psi	gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph
IDK 11001 (50/100 M)	C	15	0.061	8	4.5	3.6	3	2.6	2.3	1.8	1.5	1.3	1.1
	C	20	0.071	9	5.3	4.2	3.5	3	2.6	2.1	1.8	1.5	1.3
	C	30	0.087	11	6.5	5.2	4.3	3.7	3.2	2.6	2.2	1.8	1.6
	C	35	0.094	12	7	5.6	4.7	4	3.5	2.8	2.3	2	1.7
	C	40	0.1	13	7.4	5.9	5	4.2	3.7	3	2.5	2.1	1.9
	M	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2
IDK 110015 (50/100 M)	C	30	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4
	C	40	0.15	19	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8
	C	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6	3.2
	M	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3
	M	70	0.2	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2	3.7
	M	80	0.21	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9
IDK 11002 (50 M)	M	90	0.23	29	17.7	13.7	11.4	9.8	8.5	6.8	5.7	4.9	4.3
	C	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6	3.2
	C	40	0.2	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2	3.7
	C	50	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	M	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5
	M	70	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5	4.8
IDK 110025 (50 M)	M	80	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	M	90	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	VC	30	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	C	40	0.25	32	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6
	C	50	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	C	60	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8
IDK 11003 (50 M)	M	70	0.33	42	25	19.6	16.3	14	12.3	9.8	8.2	7	6.1
	M	80	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.5
	M	90	0.38	49	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.1
	VC	30	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5	4.8
	VC	40	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	C	50	0.34	44	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3
IDK 11004 (50 M)	C	60	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8	6.9
	C	70	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5	7.4
	C	80	0.42	54	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8
	C	90	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4
	VC	30	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.4
	VC	40	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5	7.4
IDK 11005 (50/30 M)	C	50	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4
	C	60	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4	9.1
	C	70	0.53	68	39	31	26	22	19.7	15.7	13.1	11.2	9.8
	C	80	0.57	73	42	34	28	24	21	16.9	14.1	12.1	10.6
	M	90	0.6	77	45	36	30	25	22	17.8	14.9	12.7	11.1
	VC	30	0.43	55	32	26	21	18.2	16	12.8	10.6	9.1	8
IDK 11005 (50/30 M)	VC	40	0.5	64	37	30	25	21	18.6	14.9	12.4	10.6	9.3
	VC	50	0.56	72	42	33	28	24	21	16.6	13.9	11.9	10.4
	C	60	0.61	78	45	36	30	26	23	18.1	15.1	12.9	11.3
	C	70	0.66	84	49	39	33	28	25	19.6	16.3	14	12.3
	C	80	0.71	91	53	42	35	30	26	21	17.6	15.1	13.2
	M	90	0.75	96	56	45	37	32	28	22	18.6	15.9	13.9
	M	100	0.79	101	59	47	39	34	29	23	19.6	16.8	14.7

Sample order

Type + spray angle + nozzle size + material = order number
 IDK 110° 01 C (Ceramic) = IDK11001C
 IDK 110° 01 POM = IDK11001

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.



IDKT

•compact venturi air induction nozzles

Spray angle: 120°

Material: POM. POM/Ceramic



IDKT

Features

- Compact venturi air induction twin flat spray nozzle
- **Very low drift potential**
- Very coarse to medium droplets
- 120° nozzle, featuring two angled spray fans, 30° forwards and 30° backwards
- Best performance range 15-90 psi
- Removable fixed position injector
- Fits 8 mm caps, #Y8253048 series

Range of application

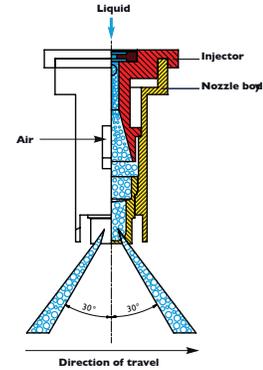
Herbicides, fungicides, insecticides, liquid fertilizers, plant growth regulators

Main benefits of IDKT nozzles

- Compact design minimizes clogging and breakage
- Excellent coverage on dense foliage and vertical targets

POM		List Price ea.
IDKT120015		\$16.25
IDKT12002		\$16.25
IDKT120025		\$16.25
IDKT12003		\$16.25
IDKT12004		\$16.25
IDKT12005		\$16.25

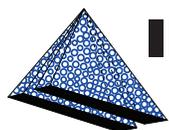
CERAMIC		List Price ea.
IDKT12003C		\$35.72
IDKT12004C		\$35.72
IDKT12005C		\$35.72



Sample order

Type	+ spray angle	+ nozzle size	+ material	=	order number
IDKT	120°	04	POM	=	IDKT12004
IDKT	120°	04	C (Ceramic)	=	IDKT12004C

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.



IDKT

•compact venturi air induction nozzles

CONT...

	ASABE S-572-1		Capacity per nozzle		Gallons/Acre								
			psi	gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph
IDKT I2002 (50 M)	VC	20	0.14	18	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3	2.6
	C	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6	3.2
	C	40	0.20	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2	3.7
	M	50	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	M	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5
	M	70	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5	4.8
	M	80	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
IDKT I20025 (50 M)	VC	20	0.18	23	13.4	10.7	8.9	7.8	6.7	5.3	4.5	3.8	3.4
	VC	30	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	C	40	0.25	32	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6
	C	50	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	C	60	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8
	M	70	0.33	42	25	19.6	16.3	14	12.3	9.8	8.2	7	6.1
	M	80	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.5
IDKT I2003 (50 M)	VC	20	0.21	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9
	VC	30	0.26	33	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8
	C	40	0.30	38	22.0	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	C	50	0.34	44	25.0	20.0	16.8	14.4	12.6	10.1	8.4	7.2	6.3
	C	60	0.37	47	27.0	22.0	18.3	15.7	13.7	11.0	9.2	7.8	6.9
	C	70	0.40	51	30.0	24.0	19.8	17.0	14.9	11.9	9.9	8.5	7.4
	M	80	0.42	54	31.0	25.0	21.0	17.8	15.6	12.5	10.4	8.9	7.8
IDKT I2004 (50 M)	VC	20	0.28	36	21.0	16.8	14.0	12.0	10.5	8.4	7.0	6.0	5.3
	VC	30	0.35	45	26.0	21.0	17.3	14.9	13.0	10.4	8.7	7.4	6.4
	VC	40	0.40	51	30.0	24.0	19.8	17.0	14.9	11.9	9.9	8.5	7.4
	C	50	0.45	58	33.0	27.0	22.0	19.1	16.7	13.4	11.1	9.5	8.4
	C	60	0.49	63	36.0	29.0	24.0	21.0	18.2	14.6	12.1	10.4	9.1
	C	70	0.53	68	39.0	31.0	26.0	22.0	19.7	15.7	13.1	11.2	9.8
	M	80	0.57	73	42.0	34.0	28.0	24.0	21.0	16.9	14.1	12.1	10.6
IDKT I2005 (50/30 M)	VC	20	0.35	45	26.3	21.0	17.5	15.0	13.1	10.5	8.8	7.5	6.6
	VC	30	0.43	55	32.0	26.0	21.0	18.2	16.0	12.8	10.6	9.1	8.0
	VC	40	0.50	64	37.0	30.0	25.0	21.0	18.6	14.9	12.4	10.6	9.3
	VC	50	0.56	72	42.0	33.0	28.0	24.0	21.0	16.6	13.9	11.9	10.4
	VC	60	0.61	78	45.0	36.0	30.0	26.0	23.0	18.1	15.1	12.9	11.3
	C	70	0.66	84	49.0	39.0	33.0	28.0	25.0	19.6	16.3	14.0	12.3
	M	80	0.71	91	53.0	42.0	35.0	30.0	26.0	21.0	17.6	15.1	13.2
		90	0.75	96	56.0	45.0	37.0	32.0	28.0	22.0	18.6	15.9	13.9

ASABE S-572.1
Droplet size classification

- XF Extremely fine
- VF Very fine
- F Fine
- M Medium
- C Coarse
- VC Very coarse
- XC Extremely coarse
- UC Ultra coarse

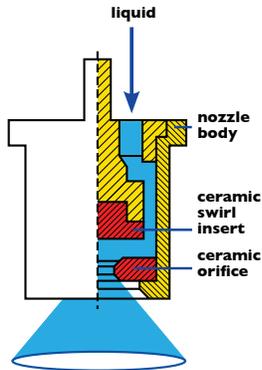
Classifications are subject to change



TR

•hollow cone nozzles with insert

Spray angle: 80°
Material: Ceramic



CERAMIC	List Price ea.
TR80005C	\$13.46
TR800067C	\$13.46
TR8001C	\$13.46
TR80015C	\$13.46
TR8002C	\$13.46
TR80025C	\$13.46
TR8003C	\$13.46
TR8004C	\$13.46
TR8005C	\$13.46



TR

Features

- Hollow cone spray nozzle with ceramic insert
- Removable insert for easy cleaning
- **Medium drift potential**
- Medium to fine droplets
- Best performance range 40-120 psi for row crops
40-290 psi for orchard/vineyard and grove crops
- Very good wear and chemical resistance
- Good crop penetration
- Fits round caps, #Y8253050 series

Range of application

Excellent for contact fungicides, insecticides, and plant growth regulators where surface coverage is critical

 (100 M) TR 80005 (100 M)	Flow rate in gpm per nozzle																	
	psi																	
	30	40	50	60	70	80	90	100	120	140	160	180	200	220	240	260	280	300
TR 80005 (100 M)	0.043	0.05	0.055	0.06	0.064	0.068	0.071	0.075	0.081	0.086	0.092	0.096	0.102	0.105	0.109	0.113	0.118	0.121
TR 800067 (50 M)	0.058	0.067	0.074	0.081	0.086	0.092	0.096	0.102	0.11	0.117	0.125	0.132	0.139	0.145	0.151	0.157	0.163	0.168
TR/ITR 8001 (50 M)	0.088	0.1	0.111	0.12	0.129	0.138	0.145	0.153	0.165	0.178	0.188	0.198	0.208	0.218	0.226	0.234	0.243	0.251
TR/ITR 80015 (50 M)	0.131	0.15	0.167	0.182	0.196	0.209	0.221	0.233	0.254	0.273	0.291	0.308	0.325	0.339	0.353	0.367	0.38	0.393
TR/ITR 8002 (50 M)	0.174	0.2	0.223	0.244	0.261	0.279	0.296	0.31	0.337	0.364	0.388	0.41	0.433	0.452	0.471	0.489	0.508	0.525
TR 80025 (50 M)	0.22	0.25	0.28	0.3	0.324	0.347	0.368	0.387	0.424	0.458	0.49	0.519	0.548	0.574	0.6	0.624	0.648	0.67
TR 8003 (50 M)	0.26	0.3	0.335	0.367	0.396	0.423	0.448	0.473	0.517	0.558	0.597	0.633	0.668	0.698	0.731	0.759	0.788	0.816
TR 8004 (50M)	0.347	0.4	0.447	0.489	0.528	0.564	0.598	0.63	0.69	0.745	0.796	0.843	0.889	0.932	0.973	1.02	1.05	1.1
TR 8005 (50 M)	0.43	0.5	0.57	0.61	0.67	0.71	0.75	0.79	0.87	0.94	1.01	1.06	1.12	1.17	1.22	1.27	1.31	1.38

Sample order
 Type + spray angle + nozzle size + material = order number
 TR 80° 02 C (Ceramic) = TR8002C



PARTNERS IN SPRAYING



IS

•off-center air induction nozzles

Spray angle: 80°
Material: POM

Nozzle ()	Flow rate in gpm per nozzle					
	psi					
	40	60	75	90	100	115
IS 8002 (50 M)	0.15	0.19	0.21	0.23	0.24	0.25
IS 80025 (50 M)	0.21	0.25	0.31	0.34	0.35	0.37
IS 8003 (50 M)	0.26	0.33	0.37	0.4	0.42	0.45
IS 8004 (50 M)	0.33	0.43	0.48	0.52	0.54	0.58
IS 8005 (50/30 M)	0.37	0.48	0.53	0.58	0.6	0.65
IS 8006 (50/30 M)	0.41	0.53	0.59	0.65	0.67	0.72

List Price ea.	
IS8002	\$22.45
IS80025	\$22.45
IS8003	\$22.45
IS8004	\$22.45
IS8005	\$22.45
IS8006	\$22.45



IS

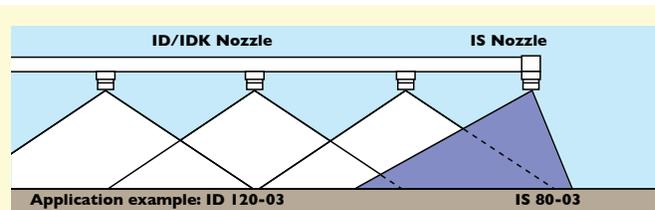
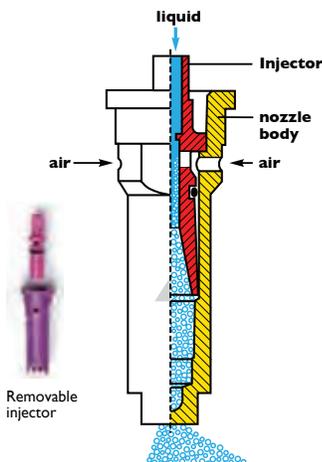
Features

- Venturi air induction flat spray nozzle
- Best performance range 30-115 psi
30-220 psi for orchard/vineyard
- **Very low drift potential**
- Uniform, large droplet size
- Available in polyacetal
- Removable injector system for easy cleaning
- Use with ID nozzle as companion boom end nozzle
- Fits 10mm caps, #Y8253049 series

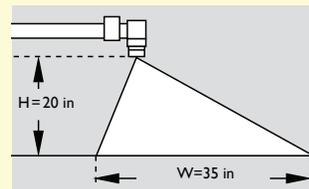
Range of application

Herbicides, fungicides, insecticides, liquid fertilizers, plant growth regulators, row crop banding

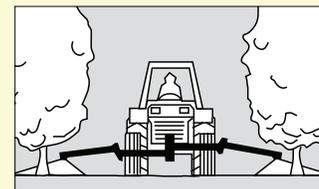
SPRAY TIPS & BOOM COMPONENTS



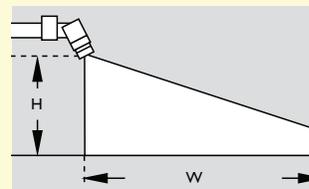
Defined edge spraying



Spray dimensions



Band spraying in orchards/vineyards

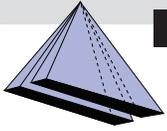


Accessories: swivel nozzle bodies, etc.



Sample order
Type + spray angle + nozzle size + material = order number
IS 80° 02 (POM) = IS8002

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.

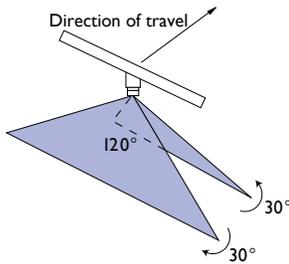


DF

•twin flat spray nozzles

Spray angle: 120°
Material: Stainless Steel

STAINLESS STEEL	List Price ea.
DFI2002S	\$19.62
DFI2003S	\$19.62
DFI2004S	\$19.62
DFI2005S	\$19.62
DFI2006S	\$19.62



Features

- Twin flat spray nozzle
- **Medium drift potential**
- Medium to fine droplets
- 120° nozzle, featuring two angled spray fans, 30° forward and 30° backwards
- Best performance range 30-75 psi
- Fits 10 mm caps, #Y8253049 series



Range of application

Herbicides, fungicides, insecticides, liquid fertilizers, plant growth regulators

Main benefits of DF nozzles

- Special purpose nozzle for fine spray applications
- Excellent for contact fungicides and surface coverage

Nozzle Type	psi	Capacity per nozzle		Gallons/Acre											
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph	16 mph	18 mph	
DF I2002 (50 M)	30	0.17	22.0	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	
	40	0.20	26.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	
	50	0.22	28.0	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	
	60	0.24	31.0	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0	
	75	0.27	34.8	20.0	16.1	13.4	11.5	10.0	8.9	8.0	6.6	5.7	5.1	4.5	
DF I2003 (50 M)	30	0.26	33.0	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3	
	40	0.30	38.0	22.0	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	
	50	0.34	44.0	25.0	20.0	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6	
	60	0.37	47.0	27.0	22.0	18.3	15.7	13.7	12.2	11.0	9.2	7.8	6.9	6.1	
	75	0.42	52.9	30.4	24.8	20.6	17.7	15.4	13.7	12.4	10.4	8.8	7.8	6.9	
DF I2004 (50 M)	30	0.35	45.0	26.0	21.0	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	
	40	0.40	51.0	30.0	24.0	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	
	50	0.45	58.0	33.0	27.0	22.0	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	
	60	0.49	63.0	36.0	29.0	24.0	21.0	18.2	16.2	14.6	12.1	10.4	9.1	8.1	
	75	0.55	70.7	40.4	32.6	27.0	23.6	20.4	18.2	16.4	13.6	11.7	10.2	9.1	
DF I2005 (50/30 M)	30	0.43	55.0	32.0	26.0	21.0	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1	
	40	0.50	64.0	37.0	30.0	25.0	21.0	18.6	16.5	14.9	12.4	10.6	9.3	8.3	
	50	0.56	72.0	42.0	33.0	28.0	24.0	21.0	18.5	16.6	13.9	11.9	10.4	9.2	
	60	0.61	78.0	45.0	36.0	30.0	26.0	23.0	20.0	18.1	15.1	12.9	11.3	10.1	
	75	0.67	86.0	49.6	39.7	33.1	28.7	25.4	22.1	20.0	16.7	14.2	12.5	11.1	
DF I2006 (50/30 M)	30	0.52	67.0	39.0	31.0	26.0	22.0	19.3	17.2	15.4	12.9	11.0	9.7	8.6	
	40	0.6	77.0	45.0	36.0	30.0	25.0	22.0	19.8	17.8	14.9	12.7	11.1	9.9	
	50	0.67	86.0	50.0	40.0	33.0	28.0	25.0	22.0	19.9	16.6	14.2	12.4	11.1	
	60	0.73	93.0	54.0	43.0	36.0	31.0	27.0	24.0	22.0	18.1	15.5	13.6	12.0	
	75	0.82	104.1	60.4	48.1	40.3	34.7	30.2	26.9	24.6	20.3	17.3	15.2	13.4	

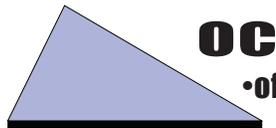
Sample order

Type + spray angle + nozzle size + material = order number
 DF 120° 02 S (Stainless Steel) = DFI2002S

- Spray pressure measured at the nozzle tip.
- The stated gallons per acre rates apply to water.
- Check your nozzle flow rates prior to each spray season.
- Make sure that all nozzles have the same designed flow rate.



PARTNERS IN SPRAYING



OC

**off center flat spray nozzles
(small sizes)**

Spray angle: 90°
Material: Brass

BRASS	List Price ea.
OC9000B	\$20.89
OC9003B	\$20.89
OC9004B	\$20.89



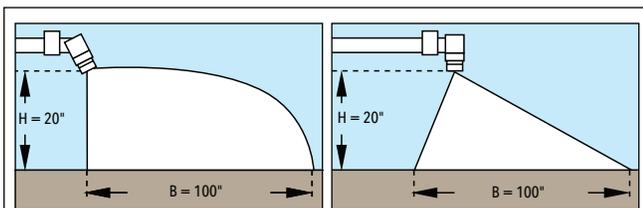
Features

- Asymmetrical 90° flat spray nozzle
- Ideal for banding, underleaf applications, boom end spray patterns
- **Medium drift potential**
- Best performance range 30-75 psi
- ISO coded for agricultural standards
- Minimal clogging
- Choose 8 mm cap, # Y8253048 series

Range of application

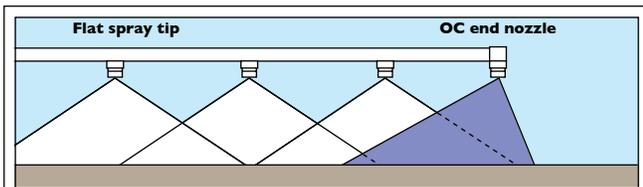
Herbicides, fungicides, insecticides, plant growth regulators, and liquid fertilizer

DF

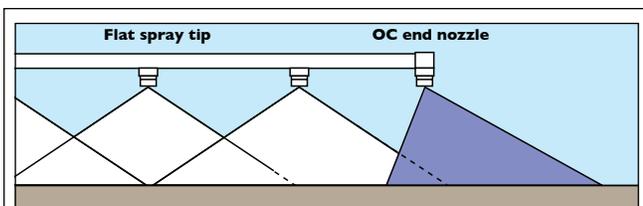


Spray dimensions

OC nozzles mounted on individual or double swivel joints allow adjustment to any angle and, therefore, wide and narrow covered areas.



Defined edge spraying



Adaption of boom width

For adaption of boom width replace the flat spray nozzle at the end of the boom by an OC nozzle. The effective extension of the boom amounts to 20" (10" to each side). However, optimal cross distribution will be achieved by using a double swivel nozzle holder at the final nozzle body for the flat spray and OC nozzle.

Nozzle	psi	Nozzle capacity gpm	Spray width in inches	Gallons/Acre 18" spraying height		
				3 mph	4 mph	5 mph
OC 9002B (50 M)	30	0.17	68	5.0	3.7	3.0
	40	0.20	70	5.7	4.2	3.4
	60	0.24	72	6.6	5.0	4.0
	75	0.27	73	7.6	5.9	4.5
OC 9003B (50 M)	30	0.26	77	6.7	5.0	4.0
	40	0.30	80	7.4	5.6	4.5
	60	0.37	82	8.9	6.7	5.4
	75	0.43	83	10.1	7.6	5.9
OC 9004B (50M)	30	0.35	91	7.6	5.7	4.6
	40	0.40	93	8.5	6.4	5.1
	60	0.49	94	10.3	7.7	6.2
	75	0.57	95	11.7	8.7	7.1
OC 9005B (50 M)	30	0.44	95	9.0	6.8	5.4
	40	0.50	97	10.2	7.6	6.1
	60	0.61	98	12.3	9.2	7.4
	75	0.71	99	13.9	10.1	8.4
OC 9006B (50 M)	30	0.52	99	10.4	7.8	6.2
	40	0.60	101	11.8	8.8	7.1
	60	0.73	102	14.2	10.6	8.5
	75	0.84	103	16.1	11.5	9.7
OC 90-08B (50 M)	30	0.69	100	13.7	10.2	8.2
	40	0.80	102	15.5	11.6	9.3
	60	0.98	104	18.7	14.0	11.2
	75	1.13	105	21.2	15.9	12.7
OC 9012B (30 M)	30	1.04	102	20.0	15.1	12.1
	40	1.20	104	23.0	17.1	13.7
	60	1.47	105	28.0	21.0	16.6
	75	1.69	106	32.0	23.0	18.9

- Application data valid for water
- Gauge the nozzle flow rates prior to each spraying season
- Spray pressure at the nozzle tip (gauged with a diaphragm valve)

Sample order

Type	+	material	=	order number
OC 2		Brass	=	OC9002B
OC 2		S (Stainless Steel)	=	OC90022S

SPRAY TIPS & BOOM COMPONENTS

Twin Spray Cap



Twin-Air Low Pressure



Twin-Air



Twin-Air Ceramic



Twin-Air

Features

- **Very low drift potential**
- Twin-Air Low Pressure
 - 30-50 psi working range
 - Medium to fine droplets
 - Excellent canopy penetration
 - IDK air induction spray in front position and extended range LU spray nozzle in back position
- Twin-Air
 - 15-90 psi working range
 - Ideal balance between uniform coverage, canopy penetration and drift control
 - Successful applications of fungicides to combat Asian Soybean Rust
 - IDK air induction spray in front and back position
- Twin-Air Ceramic
 - 80 psi and up working range
 - Provides extended wear and performance while maintaining drift control
 - Ideally suited for high pressure applications
- All include cap, #09216356A0000

Range of application

Successful applications of fungicides to combat Asian Soybean Rust: Excellent canopy penetration, high foliar coverage at the lower and mid range positions, and effective drift control

POM	List Price ea.
092.163.56.00	\$13.46
092.163.56.01	\$23.19

Sample order

Type = order number
 TwinSprayCap System MULTIJET (incl. Gasket no. 095.015.6C.08.59.0) = 092.163.56.00
 TwinSprayCap System Hardi (incl. Gasket no. 095.015.73.01.60.0) = 092.163.56.01

Nozzle Bodies

DESCRIPTION	PART #		PRICE ea.
Swivel nozzle body, nylon	Y8247015	1/4" F	\$20.66XX



DESCRIPTION	PART #		PRICE ea.
Quick fit adapter, 1/4", nylon, QD adapter	Y8230021	1/4"	\$5.95



DESCRIPTION	PART #		PRICE ea.
Dry boom nozzle body, 3/8", elbow barb	Y8231001	3/8"	\$6.97
Dry boom nozzle body, 1/2", elbow barb	Y8231003	1/2"	\$6.97
Dry boom nozzle body, 3/4", elbow barb	Y8231005	3/4"	\$6.97



DESCRIPTION	PART #		PRICE ea.
Dry boom nozzle body, 3/8", tee barb	Y8231007	3/8"	\$6.97
Dry boom nozzle body, 1/2", tee barb	Y8231009	1/2"	\$6.97
Dry boom nozzle body, 3/4", tee barb	Y8231011	3/4"	\$6.97



DESCRIPTION	PART #		PRICE ea.
Dry boom nozzle body, 3/8", cross barb	Y8231013	3/8"	\$6.97
Dry boom nozzle body, 1/2", cross barb	Y8231015	1/2"	\$6.97
Dry boom nozzle body, 3/4", cross barb	Y8231017	3/4"	\$6.97





Nozzle Bodies

DESCRIPTION	PART #	PRICE ea.
Dry boom nozzle body, 3/8", elbow, top diaphragm	Y8235019	3/8" \$15.10
Dry boom nozzle body, 1/2", elbow, top diaphragm	Y8235021	1/2" \$15.10
Dry boom nozzle body, 3/4", elbow, top diaphragm	Y8235023	3/4" \$15.10

DESCRIPTION	PART #	PRICE ea.
Dry boom nozzle body, 3/8", tee, top diaphragm	Y8235025	3/8" \$15.10
Dry boom nozzle body, 1/2", tee, top diaphragm	Y8235027	1/2" \$15.10
Dry boom nozzle body, 3/4", tee, top diaphragm	Y8235029	3/4" \$15.10

DESCRIPTION	PART #	PRICE ea.
Dry boom nozzle body, 3/8", cross barb, side diaphragm	Y8235013	3/8" \$14.86
Dry boom nozzle body, 1/2", cross barb, side diaphragm	Y8235015	1/2" \$17.99
Dry boom nozzle body, 3/4", cross barb, side diaphragm	Y8235017	3/4" \$17.99

DESCRIPTION	PART #	PRICE ea.
1/2" pipe wet boom nozzle body, diaphragm, EPDM, .39"	Y8234007	1/2" \$13.46
3/4" pipe wet boom nozzle body, diaphragm, EPDM, .39"	Y8234009	3/4" \$15.67
1" pipe wet boom nozzle body, diaphragm, EPDM, .39"	Y8234051	1" \$15.70

DESCRIPTION	PART #	PRICE ea.
Rotary nozzle body, 3 way, diaphragm right, wet boom, EPDM, .39" port	Y8244138	1" \$34.83

DESCRIPTION	PART #	PRICE ea.
Single hose barb for Rotary to dry boom, 1/2", for .41" port	Y8294014	1/2" \$2.63
Single hose barb for Rotary to dry boom, 3/4", for .41" port	Y8294015	3/4" \$2.63
Single hose barb for Rotary to dry boom, 3/4" Hose ID, 1" Pipe OD, for .41" port	Y8294028	3/4" \$3.35
Single hose barb for Rotary to dry boom, 1", for .41" port	Y8294029	1" \$3.35

DESCRIPTION	PART #	PRICE ea.
Double hose barb for Rotary to dry boom, 1/2", for .41" port	Y8294017	1/2" \$2.63
Double hose barb for Rotary to dry boom, 3/4", for .41" port	Y8294018	3/4" \$2.63
Double hose barb for Rotary to dry boom, 3/4" Hose ID, 1" Pipe OD, for .41" port	Y8294030	3/4" \$3.35
Double hose barb for Rotary to dry boom, 1", for .41" port	Y8294031	1" \$3.35



Y8253040



Y8253050



YG00002020

Winged Bayonet Caps

DESCRIPTION	PART #		PRICE ea.
Winged bayonet caps, ID, IS, DF, FL, 10 mm across flats	Y8253049	black	\$2.14
Winged bayonet caps, TR, ITR, poly FT, round	Y8253050	black	\$2.14
Winged bayonet caps, poly FT self aligning	Y8253051	black	\$2.14
Winged bayonet caps, closed	Y8253040	black	\$2.14
Winged bayonet caps, 8 mm/10 mm Universal	Y8253080	black	\$2.14
Replacement W B Cap gaskets	YG00002020	black	\$2.14



Y8139002



Y8139003



Y8139011

Spray Tip Filters

DESCRIPTION	PART #		PRICE ea.
Nozzle filters, poly, stainless screen, 50 mesh	Y8139002	blue	\$2.19
Nozzle filters, poly, stainless screen, 100 mesh	Y8139003	green	\$2.19
Nozzle filters, poly, 50 mesh, stainless screen, w/ check valve	Y8139004	blue	\$2.57
Nozzle filters, poly, 100 mesh, stainless screen, w/ check valve	Y8139005	green	\$2.57

Nozzle filters, brass, 50 mesh, stainless screen, w/ check valve	Y8139009	brass	\$8.93
Nozzle filters, brass, 100 mesh, stainless screen, w/ check valve	Y8139010	brass	\$8.93
Nozzle filters, brass, stainless screen, 50 mesh	Y8139011	brass	\$7.86
Nozzle filters, brass, stainless screen, 100 mesh	Y8139012	brass	\$7.86

Suction Filters



DESCRIPTION	PART #	PRICE ea.
Suction Filter for detergents (with counterweight)	600146	\$2.50

Hose Drop



DESCRIPTION	PART #	PRICE ea.
Hose Drop Tube Assembly; 15"; Bayonet Connection	Y8251000	\$22.95
Hose Drop Tube Assembly; 24"; Bayonet Connection	Y8251002	\$23.13



18" Deluxe Pistol Grip Spray Gun

- Heavy Duty Construction
- Working pressure up to 300 PSI
- #18 Adjustable Brass Pattern Tip
- Suggested Usage: Applying Insecticides and Herbicides
- Ideal For Use With ATV Sprayers, Spot Sprayers, and Trailer Sprayers

PART #	PRICE ea.
600147	\$54.92



Spot Spray Gun

- Spray Gun with #18 orifice
- 18" overall length
- 3/8" hose barb connection
- Filter in handle
- Working pressure 200 PSI

PART #	PRICE ea.
600227	\$26.05



PARTNERS IN SPRAYING



Nozzle Types & Spray Patterns

Flat Fan— AD, LU, DF, ID3, ID, IS, IDK, IDKT, ES, SC, ST, OC

Hollow Cone— TR, ITR

Flood / Fertilizer— FD, PRE, FT, FL

Recommended windspeed duty limits for key Lechler® nozzles

Type	Name	Maximum wind speed
Flat Fan	LU, ST, SC	7 MPH
Flat Fan w/insert	AD	9 MPH
Air assisted compact flat fan	IDK	11 MPH
Air assisted flat fan	ID3, ID, IS	11 MPH

ASABE S572 Droplet Size Classifications By Nozzle

Symbol	Color Code	Droplet Size Category	Nozzle
XF	Purple	Extremely Fine	DF, TR
VF	Red	Very Fine	DF, TR
F	Orange	Fine	DF, TR, LU
M	Yellow	Medium	AD, LU, IDK, OC, ST, ES, DF
C	Blue	Coarse	AD, ID, IS, IDK, ITR, IDK, FT
VC	Green	Very Coarse	AD, ID, IS, IDK, ITR, FT, FD
XC	White	Extremely Coarse	ID, IS, FT, FD, FL
UC	Black	Ultra Coarse	FD, FL

Lechler® ISO 10625 Nozzle Color & Volume Code Chart

Size/Color	Gallons/Minute @ 40 PSI
005-Blue Lilac	0.05
0067-Olive Green	0.07
0075-Light Pink	0.08
01-Pure Orange	0.11
015-Traffic Green	0.16
02-Zinc Yellow	0.21
025-Signal Violet	0.26
03-Genetian Blue	0.31
035-Brown Red	0.37
04-Flame Red	0.42
05-Nut Brown	0.52
06-Signal Grey	0.62
08-Traffic White	0.83
10-Light Blue	1.06
15-Yellow Green	1.59
20-Black	2.11

Sprayer Data to Note for Correct Tip Selection

CROP CONDITIONS:

Bare Ground
Row Crop/Canopied Height
Banding

Overall working boom width

L Section End
L Section Inner
Middle Section
R Section Inner
R Section End

Nozzle Identification



Nozzle Type
Material: POM
80° Spray Angle
0.15 GPM @ 40 PSI
Brand Name

GENERAL SPRAYER INFORMATION:

Boom target height above crop
Nozzle body spacing width, inches

Gallons/Acre Target
Gallons/Minute Target

Minimum Field Working Speed
Maximum Field Working Speed
Sprayer Tank Size

Working pump pressure target
Maximum pump pressure

Spray controller model
Speed sensor type

Spray material used
Adjuvant used

Wind conditions expected
Special equipment needs

Nozzle Materials	Best Applications	Characteristics	Approximate Wear Life
Brass	Plant protection materials	Not for fertilizers. May corrode.	Shortest Wear Life
Stainless Steel	Plant protection materials; Liquid fertilizers	For use with high flow rate, high pressure & abrasive compounds.	2-3X brass
Polypropylene	For acidic tank mixes; Cotton defoliation	Good chemical resistance. May use ceramic core.	More wear resistant than SS; 3-4X SS
POM	Plant protection materials; Liquid fertilizers	Good chemical resistance. Very wear resistant. Cost efficient. Equal or better wear than SS.	More wear resistant than SS; 3-5X SS
Ceramic	Plant protection materials; Liquid fertilizers	Extremely wear resistant. Best for air blast sprayer applications. Will not corrode.	More than 4 times longer than POM

Lechler® Nozzle Best Use Recommendations

		ID/ID3	IS	IDK	IDKT	LU	SC/ST	AD	DF	OC	ES	TR	ITR	FT	FL	FD/PRE
Herbicides	Soil Incorporated	E	E	E	E	E	VG	E		E	VG	G	E	E		E
	Pre Emergence	E	E	E	E	E	VG	E		E	VG	G	G	E		E
	Post E Systemic	E	E	E	E	E	VG	E	G	E	VG	G	G	VG		
	Post E Contact	VG	VG	VG	E	E	VG	VG	E	E	VG	E		VG		
Fungicides	Systemic	VG	VG	VG	E	E	VG	VG	E	E	VG	E	G	VG		
	Contact	E	E	E	E	E	VG	E	VG	E	VG	VG	VG	VG		
Insecticides	Systemic	VG	VG	VG	E	E	VG	VG	E	E	VG	E	G	VG		
	Contact	E	E	E	E	VG	VG	E	VG	E	VG	VG	VG	VG		
Liquid Fertilizer		E	E	E	G	G	G	VG		E	G		E	VG	E	E
Plant Growth Regulator		E	E	E	E	E	VG	E	G	E	VG	G	G	VG		
Boom Irrigation		E	E	E	E	VG	VG	E		VG	VG		VG	G	VG	E

Suitability Ratings: E=Excellent VG=Very Good G=Good

SPRAY TIPS & BOOM COMPONENTS

Theoretical Coverage, Single Nozzle, Spray Height & Spray Angle

Spray Angle	NOZZLE SPACING				
	12"	20"	24"	30"	40"
80°	20.2"	33.5"	40.5"	50.5"	66.5"
90°	24"	40"	48"	60"	84"
110°	34.3"	56.5"	68.5"	85.5"	117"
120°	41.5"	70"	83"	104"	134.5"
130°	51.5"	85"	103"	134"	175"
140°	68.5"	106.5"	132"	164.5"	210"

Suggested Minimum, Optimal Boom Heights...

Nozzle Spray Angle	15"		20"		30"	
	Min.	Optimal	Min.	Optimal	Min.	Optimal
80°	13-15"	22"	17-20"	30"	26-28"	43"
110°	10-11"	15"	15-18"	20"	20-22"	30"
120°	8-10"	15"	12-15"	20"	16-20"	30"

Boom Height needed to meet desired overlap of Spray Pattern

Nozzle Spacing	Height In Inches			
	20"	30"	40"	60"
20% % Overlap	24"	36"	48"	72"
30%	26"	39"	52"	78"
40%	28"	42"	56"	84"
50%	30"	45"	60"	90"
60%	32"	48"	64"	96"
70%	34"	51"	68"	102"
80%	36"	54"	72"	108"
90%	38"	57"	76"	114"
100%	40"	60"	80"	120"

Gallons Sprayed per Acre...

$$GPA = \frac{GPM \times 5940}{MPH \times W}$$

GPA is gallons per acre of spray applied.

GPM is gallons per minute output of each nozzle.

MPH is ground speed in miles per hour.

W is actual spray width per nozzle in inches.

5940 is a constant that converts GPM, MPH and W in inches to gallons per acre.

Each Nozzle's Flow Rate...

$$GPM = \frac{GPA \times MPH \times W}{5940}$$

US Standard Metric Volume...

Convert	To	Multiply By
Pints	Liters	0.473
Quarts	Liters	0.948
Gallons	Liters	3.785
Ounces	Kilograms	0.029
Pounds	Kilograms	0.454

US Standard Metric Length...

Inches	Equals
1/4"	6.5 mm
1/2"	13 mm
3/4"	19 mm
1"	25 mm
1-1/4"	32 mm
1-1/2"	38 mm
1-3/4"	44 mm
2"	51 mm
20"	51 cm
30"	76 cm
40"	102 cm
50"	127 cm
60"	152 cm

Metric Conversions...

Convert	To	Multiply By
Inches	Centimeters	2.54
	Meters	0.025
	Feet	0.083
	Yards	0.027
Miles	Feet	5280
	Yards	1760
	Kilometers	1.609
Centimeters	Inches	0.394
	Feet	0.032
Meters	Inches	39.37
	Feet	3.281
	Yards	1.093
Kilometers	Miles	0.621

Gallons Per Acre By Boom Width & Speed

60 MPH = 316,800 feet per hour
43,560 square feet/acre

20 MPH = 105,600 ft/hr
18 MPH = 95,040 ft/hr
16 MPH = 84,480 ft/hr
14 MPH = 73,920 ft/hr
12 MPH = 63,360 ft/hr
10 MPH = 52,800 ft/hr
8 MPH = 42,240 ft/hr
6 MPH = 31,680 ft/hr
4 MPH = 21,120 ft/hr

60' boom = 726' distance/acre
75' boom = 581' distance/acre
90' boom = 484' distance/acre
120' boom = 363' distance/acre

60' BOOM SYSTEM

	ACRE/HR.	ACRE/MIN.	GPM NEEDED AT BOOM TO SPRAY:					
			5 GPA	10 GPA	15 GPA	20 GPA	30 GPA	40 GPA
20 MPH	145.5	2.4	12.1	24.2	36.4	48.5	72.7	97.0
18 MPH	130.9	2.2	10.9	21.8	32.7	43.6	65.5	87.3
16 MPH	116.4	1.9	9.7	19.4	29.1	38.8	58.2	77.6
14 MPH	101.8	1.7	8.5	17.0	25.5	33.9	50.9	67.9
12 MPH	87.3	1.5	7.3	14.5	21.8	29.1	43.6	58.2
10 MPH	72.7	1.2	6.1	12.1	18.2	24.2	36.4	48.5
8 MPH	58.2	1.0	4.8	9.7	14.5	19.4	29.1	38.8
6 MPH	43.6	0.7	3.6	7.3	10.9	14.5	21.8	29.1
4 MPH	29.1	0.5	2.4	4.8	7.3	9.7	14.5	19.4

75' BOOM SYSTEM

	ACRE/HR.	ACRE/MIN.	GPM NEEDED AT BOOM TO SPRAY:					
			5 GPA	10 GPA	15 GPA	20 GPA	30 GPA	40 GPA
20 MPH	182	3.0	15.1	30.3	45.4	60.6	90.9	121.2
18 MPH	164	2.7	13.6	27.3	40.9	54.5	81.8	109.1
16 MPH	145	2.4	12.1	24.2	36.4	48.5	72.7	96.9
14 MPH	127	2.1	10.6	21.2	31.8	42.4	63.6	84.8
12 MPH	109	1.8	9.1	18.2	27.3	36.4	54.5	72.7
10 MPH	91	1.5	7.6	15.1	22.7	30.3	45.4	60.6
8 MPH	73	1.2	6.1	12.1	18.2	24.2	36.4	48.5
6 MPH	55	0.9	4.5	9.1	13.6	18.2	27.3	36.4
4 MPH	36	0.6	3.0	6.1	9.1	12.1	18.2	24.2

90' BOOM SYSTEM

	ACRE/HR.	ACRE/MIN.	GPM NEEDED AT BOOM TO SPRAY:					
			5 GPA	10 GPA	15 GPA	20 GPA	30 GPA	40 GPA
20 MPH	218	3.6	18.2	36.4	54.5	72.7	109.1	145.5
18 MPH	196	3.3	16.4	32.7	49.1	65.5	98.2	130.9
16 MPH	175	2.9	14.5	29.1	43.6	58.2	87.3	116.4
14 MPH	153	2.5	12.7	25.5	38.2	50.9	76.4	101.8
12 MPH	131	2.2	10.9	21.8	32.7	43.6	65.5	87.3
10 MPH	109	1.8	9.1	18.2	27.3	36.4	54.5	72.7
8 MPH	87	1.5	7.3	14.5	21.8	29.1	43.6	58.2
6 MPH	65	1.1	5.5	10.9	16.4	21.8	32.7	43.6
4 MPH	44	0.7	3.6	7.3	10.9	14.5	21.8	29.1

120' BOOM SYSTEM

	ACRE/HR.	ACRE/MIN.	GPM NEEDED AT BOOM TO SPRAY:					
			5 GPA	10 GPA	15 GPA	20 GPA	30 GPA	40 GPA
20 MPH	291	4.8	24.2	48.5	72.7	97.0	145.5	193.9
18 MPH	262	4.4	21.8	43.6	65.5	87.3	130.9	174.5
16 MPH	233	3.9	19.4	38.8	58.2	77.6	116.4	155.2
14 MPH	204	3.4	17.0	33.9	50.9	67.9	101.8	135.8
12 MPH	175	2.9	14.5	29.1	43.6	58.2	87.3	116.4
10 MPH	145	2.4	12.1	24.2	36.4	48.5	72.7	97.0
8 MPH	116	1.9	9.7	19.4	29.1	38.8	58.2	77.6
6 MPH	87	1.5	7.3	14.5	21.8	29.1	43.6	58.2
4 MPH	58	1.0	4.8	9.7	14.5	19.4	29.1	38.8

Speed & Travel Distance

MPH = Distance in feet x 60/time in seconds x 88

Speed	Time to Cover 300 feet
1 MPH	205 seconds
2 MPH	102 seconds
3 MPH	68 seconds
4 MPH	51 seconds
5 MPH	41 seconds
6 MPH	34 seconds
7 MPH	29 seconds
8 MPH	26 seconds
9 MPH	23 seconds
10 MPH	21 seconds
12 MPH	17 seconds
15 MPH	14 seconds
20 MPH	11 seconds

GPM per Nozzle...

$$GPA \times MPH \times W$$

$$5940$$

GPM per Nozzle in turf...

$$\frac{Gal / 1000 sq ft \times MPH \times W}{136}$$

US Standard Volumes...

1 gallon = 126 fluid ounces
1 gallon = 8 pints
1 gallon = 4 quarts

Conversion Factors, Water & Solutions

Weight of Solution	Specific Gravity	Conversion Factor
7.0 lbs/ gallon	0.84	0.92
8.0 lbs/ gallon	0.96	0.98
8.34 lbs/ gallon	1.00 for Water	1
9.0 lbs/ gallon	1.08	1.04
10.0 lbs/ gallon	1.2	1.1
10.65 lbs/ gallon	1.28-28% N Solution	1.13
11.0 lbs/ gallon	1.32	1.15
12.0 lbs/ gallon	1.44	1.2
14.0 lbs/ gallon	1.68	1.3



Lechler Inc. Spray Nozzles And Parts—

To meet your spraying needs, Lechler Inc. offers a full line of spray tips and boom components. Each region of the country stocks component parts, sizes, materials, and quantities aimed at the crops and needs of their area. A full range of sizes and larger quantities are available by Catalog order. Use this information to select the best nozzles and parts for your sprayer, and keep in mind that there are many ways to get the job done.

The coverage of a nozzle is determined by the spray angle and spray height (*the distance between the nozzle and the target surface*). **Flat Fan** nozzles are the most common type used on boom sprayers, and they should be used in combination to overlap each other for best coverage. **Air Induction** nozzles create larger droplet sizes, while **Even Spray** and **Off Center** nozzles should be used for banding and directed spray programs. **Flood** nozzles create wide, flat patterns at low pressures, and **Hollow Cone** nozzles are used for foliar treatments. Overlapping with flat fan nozzles for broadcast spraying will ensure uniform distribution across the entire boom, and the key is to use nozzles with the same pattern rating (all 80°, 110°, or 120°, etc.). Wider spray angles will allow you to lower your boom height and maintain coverage. When changing tips, use matched sets and sizes.

Selecting nozzles and spray tips—

The type of nozzle needed is determined by many factors, and the major points to consider include:

- 1- the crop to be sprayed,
- 2- the time of the season and crop's growth stage,
- 3- the weeds or pests to be controlled,
- 4- the characteristics of the pesticide to be used and the label requirements, and
- 5- the size/capacity of your spray unit.

When you are switching crops or programs in season, the most important factors when deciding when to use another tip is the output capacity and pressure range. To double the output of a tip, the pressure must be increased four times. Higher spray rates may put the droplet size, boom pressure, pump demands, etc., beyond their satisfactory ranges of performance. Our charts will help you determine the size and types that will be needed.

Pre-Season Inspection And Maintenance—

It is difficult to see wear in a set of spray nozzles. Catch or measure the output from your tips during your testing procedures. Use marked/ measured containers if you have them available, or similar size and shaped containers can be used. Check all your tips at a constant flow rate, pressure, and spraying time. A good rule is that if you measure 10% variance or see an uneven pattern, replace your nozzles.

Before replacing a tip, inspect it since it may only need cleaning. Many fungicides or adjuvants can cause clogging, so use a brush with soft bristles to remove any material. When you are switching spray programs, especially when changing crops, flush all hoses, reinspect the line filters, and install new nozzle filters to help reduce contamination and future clogging events.

A nozzle made by one company that is the same type and color will interchange with another company's item and the performance will be fine. For example, a 110° flat fan, "02" Yellow nozzle, will always yield 0.2 GPA flow at 40 PSI when it is new, no matter the material its made of or what company made the part.

Spray Tip Materials And Wear—

Nozzles approved for use with plant protection products are made from materials that have different wear characteristics and costs. These materials include **polyacetal plastic (called POM), stainless steel, POM/ceramic core, brass, or polypropylene/ceramic core.**

The American Society of Agricultural and Biological Engineers is our reference group.

Their focus is drift reduction, and they categorize spray tips as producing Very Fine (Red), Fine (Orange), Medium (Yellow), Coarse (Blue), Very Coarse (Green), and Extremely Coarse (White) droplets. These standards help you select tips when coverage and drift reduction both are considerations. The crop protection product label may tell you the recommended droplet size for the best drift control.

How to reduce spray drift—

You can work within your seasonal weather conditions if you plan ahead. There are several decisions you can make that will help you keep off target spray damage to a minimum.

If drift has been a problem for you in the past, redesign your boom plumbing and tip spacing to be lower and as close to the target zone as practical for your spraying speeds. Tip spray angle can be changed or drop tubes added to improve location and coverage. Some nozzles are designed to create an even pattern at lower pressures, and directional flat fan tips can be aimed to place material where needed.

Check your weather forecast, and take note of daily wind speeds—spray when wind speeds are less than 11 MPH when using air assisted flat fan tips. Avoid times when the air is completely calm or the temperature will exceed 85°, as the spray material may move off target. Be aware of the wind direction and note where sensitive plants are downwind, you may need to create a buffer zone between crops.

Increasing the droplet size and reducing pressure will produce coarser droplets, and the key is to select a tip that will result in the best crop coverage with the least amount of small particles created. Venturi style, anti-drift flat fan, and flood tips are designed for that purpose. Changing to a larger size nozzle of the same style you have been using will help since you will be working in a lower part of the tip's pressure range. You may need to increase the tank mix volume to match these changes. Read the product label for the manufacturer's recommendations regarding tank mixes and adjuvants that may be used.

In some areas, Lechler nozzles are rated and approved for specific drift reduction management practices when local rules apply. ES tips for banding, AD tips for air assist sprayers, and ID/IDK tips for minimizing the setback distance near bodies of water are good examples. Ask us for more information and see how we can help you.



SG100



SG200



LG100



LG200



AG060



B111R



B111SQ



BQ1114R



BQ1114SQ

Pressure Gauges

Standard Gauge

PART #	DESCRIPTION	PRICE ea.
SG060	Standard Gauge, 60 PSI	\$11.89
SG100	Standard Gauge, 100 PSI	\$11.89
SG200	Standard Gauge, 200 PSI	\$11.89
SG400	Standard Gauge, 400 PSI	\$11.89
SG1004	4" Standard Gauge, 100 PSI	\$31.97

Liquid Gauge

PART #	DESCRIPTION	PRICE ea.
LG100	2-1/2" Liquid Filled, 100 PSI	\$24.40
LG200	2-1/2" Liquid Filled, 200 PSI	\$24.40

Ammonia Gauge

PART #	DESCRIPTION	PRICE ea.
AG060	2-1/2" Ammonia, 60 PSI	\$25.02

Steel Boom Clamps

Standard Clamps-Round

PART #	DESCRIPTION	PRICE ea.
B1134R	3/4"	\$4.79
B111R	1"	\$4.79

Standard Clamps-Square

PART #	DESCRIPTION	PRICE ea.
B111SQ	1"	\$4.79
B11114SQ	1-1/4"	\$4.79

Quick Clamps-Round

PART #	DESCRIPTION	PRICE ea.
BQ1134R	3/4"	\$6.73
BQ111R	1"	\$6.73
BQ11114R	1-1/4"	\$6.73

Quick Clamps-Square

PART #	DESCRIPTION	PRICE ea.
BQ1134SQ	3/4"	\$6.73
BQ111SQ	1"	\$6.73
BQ11114SQ	1-1/4"	\$6.91
BQ11112SQ	1-1/2"	\$6.73

2-Way Solenoid Valves

Large Solenoid Valve

12-Volt DC Electric Boom Shutoff Valves have a 3/4" NPT Female inlet, 3/4" NPT male bypass outlet and a 1/2" NPT female boom outlet. This direct operating valve is designed for 100 PSI maximum operating pressure and 10GPM. (only 5 PSI pressure is lost @ 10 GPM)

- Draws 2 amps per valve at 12 volts.
- Viton seals and o-rings.
- Wetted parts are made of 430 SS and glass filled nylon.

PART #	DESCRIPTION	PRICE ea.
2500B1	Solenoid Shutoff Valve, Single	\$238.92
2352	Repair Kit for 2500B-1 Solenoid Valve	\$65.30



2500B1

Manual Valve

2750 Manual Valve
This manual valve has a 3/4" NPT male and female inlet and bypass and a 1/2" NPT female boom outlet.

- 0-10 GPM, 175 PSI
- Viton Seals and o-rings.
- Wetted parts are made of 302 SS and glass filled nylon.

**The 2750 is a manual valve with a 1/4" NPT pump pressure point that needs to be drilled to function.*

PART #	DESCRIPTION	PRICE ea.
2750	Manual Shutoff Valve	\$169.66



2750

Wiring Harnesses

- 96" wiring harness with on/off switch & 2-pin connector
- 12 volt

PART #	DESCRIPTION	PRICE ea.
WH101CA	12V with car adapter connection 7 amp tube fuse – 20 gauge wire	\$12.83
WH102BC	12V with 30 amp battery clips no fuse – 18 gauge wire	\$12.82
WH104	12V with car adapter & battery clip 7 amp tube fuse – 20 gauge wire	\$27.60
WH105	12V with car adapter & battery clip 15 amp mini blade fuse – 16 gauge wire	\$31.13



WH101CA



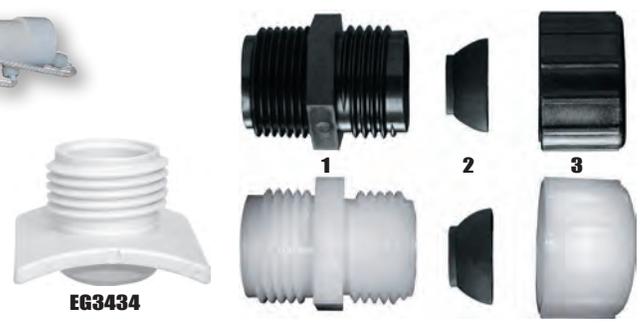
WH102BC



String Wing

- New wick arrangement gives a double wipe which means an even application rate and a better kill.
- Because wick runs from top to bottom rather than side to side you never have to worry about the top row of wicks drying out as have been a problem on the first generation of wick applicators.
- 5' sections help reduce wicks from drying out when applying on uneven ground where the wick bar is constantly tilted.
- Build any length applicator you want with the "String Wing", the convenient 5' sections allow you to build 10', 15', 20', etc. sections.
- The special design of alternating wicks on the end cap means when you put "String Wings" end to end you get full swath coverage; (No spots missed).
- Each "String Wing" has its own 1 1/4" fill opening and a breather to prevent vapor locking or pressure surges due to weather temperatures.

See Our Mount for ATU's!



Rope Wick Fitting

REF#	PART #				DESCRIPTION
	NYLON	PRICE ea.	POLY	PRICE ea.	
1	E3434	\$1.00	E3434P	\$1.25	3/4" Male GHT X 3/4" MPT Nylon
2	W407	\$0.25			Cone Washer
3	B3450	\$0.73	B3450P	\$1.01	3/4" Female GHT x 1/2" opening
3	B3458	\$0.73	B3458P	\$1.01	3/4" Female GHT x 5/8"
1, 2, 3	E3434C	\$1.76	E3434CP	\$3.54	1ea. E3434, B3450 & W407
EG3434	EG3434	\$1.82			Glue on Body. Designed to fit over 3" schedule 40 PVC pipe only.

PART #	PRICE ea.
SW	\$292.77



Weed Thief

- Robs garden of unwelcome weeds
- Rids lawn of dandelions
- Cleans fence rows
- Kills weeds in row crops
- Easy to use
- Lightweight 2 1/2 pounds when filled
- Economical

PART #	PRICE ea.
WT1	\$48.23



Wick Replacement Kit

PART #	DESCRIPTION	PRICE ea.
WK1	Wick replacement for String Wing, includes 14 each 18" wicks with 28 each B3450 fittings and W407 cone washers installed.	\$92.00
WK2	Wick Replacement Kit for a 20' wick bar. Parallel wick rows. Includes 50 each 18" wicks with 100 ea. B3450 fittings & W407 cone washers installed.	\$325.52
WK3	Wick Replacement includes 50 each 18" wicks. No fittings or cone washers. Wick ends are heat sealed.	\$218.53
WK4	1 - 18" Wick; 2 - B3450 fittings and 2 - W407 cone washers. Wick ends are heat sealed.	\$7.35
WK5	String Wing Do-It-Yourself Kit - 5ft. Includes everything needed to make your own String Wing, excluding 3-inch pipe.	\$154.54
WK10	String Wing Do-It-Yourself Kit - 10ft. Includes 54-EG3434; 2-SW300CAP DWF; 2-WK1; 1-SW1140CAP; 1-M1140; 1-SW Breather	\$319.90
WK15	String Wing Do-It-Yourself Kit - 15ft. Includes 81-EG3434; 2-SW300CAP DWF; 3-WK1; 1-SW1140CAP; 1-M1140; 1-SW Breather	\$479.85
WK20	String Wing Do-It-Yourself Kit - 20ft. Includes 108-EG3434; 2-SW300CAP DWF; 4-WK1; 1-SW1140CAP; 1-M1140; 1-SW Breather	\$639.80

Adapter

This fitting was used in early model rope wick applicators. Requires the use of N 1116 Nut and either an "O" ring for wick bar use or a W406 washer if used as a tank fitting. ("O" ring are special order)



PART #				THREAD
NYLON	PRICE ea.	POLY	PRICE ea.	
1116B	\$0.89	1116BP	\$1.15	11/16"

Cone Washer

Used for sealing wick in fitting. Fits 1/2" or 5/8" wick material.

PART #	PRICE ea.
W407	\$0.25



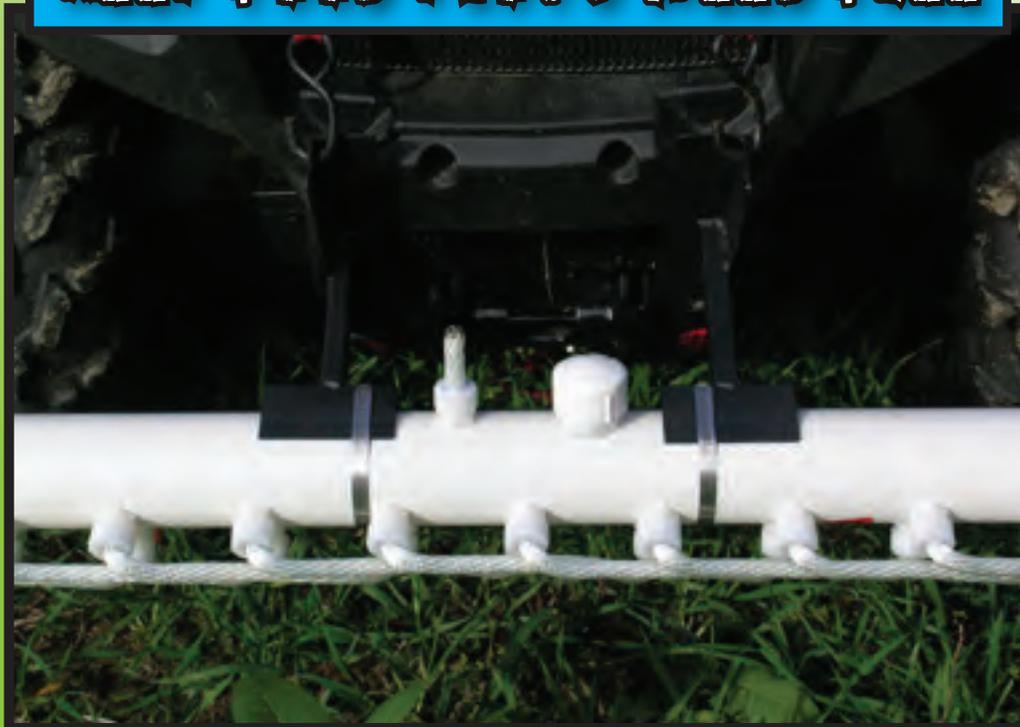
STRING WING **ATV MOUNT**



**EASILY
MOUNTS
STRING WING
TO THE
FRONT OF
ANY ATV***

KEEP FOOD PLOTS WEED FREE

**Use with
Your Choice
of Herbicide
& Wick Away
Unwanted
Weeds**



ATV Mount

Set includes 2 Brackets & Clamps for mounting the String Wing to an ATV.

PRICE per SET (2 brackets)

SWATVBR	\$165.06
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*STRING WING & STRAPS SOLD SEPARATELY



Wonder Winder®

Electrical Power At Your Fingertips

- **PORTABLE**
Use indoors or outdoors
- **FAST & EASY**
Winds 100 ft of cord in 30 seconds
- **3-YR WARRANTY**
Heavy duty construction.

LARGE CAPACITY
holds 100 ft. of cord!!



* Cord Not Included

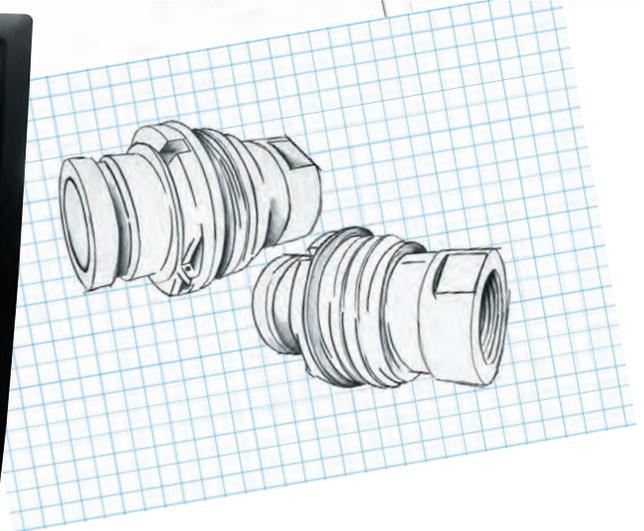
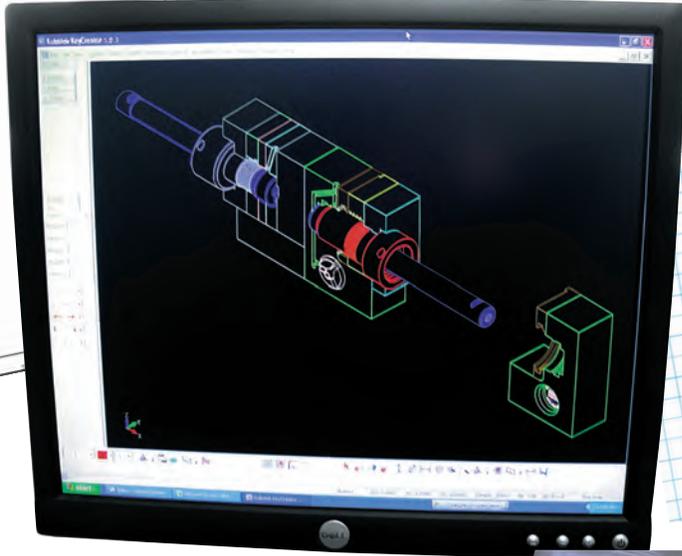
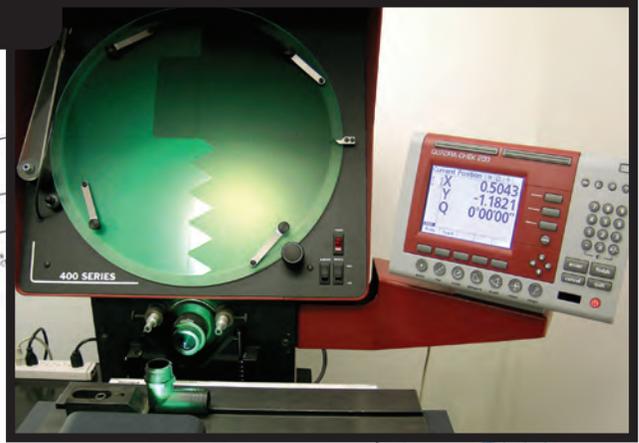
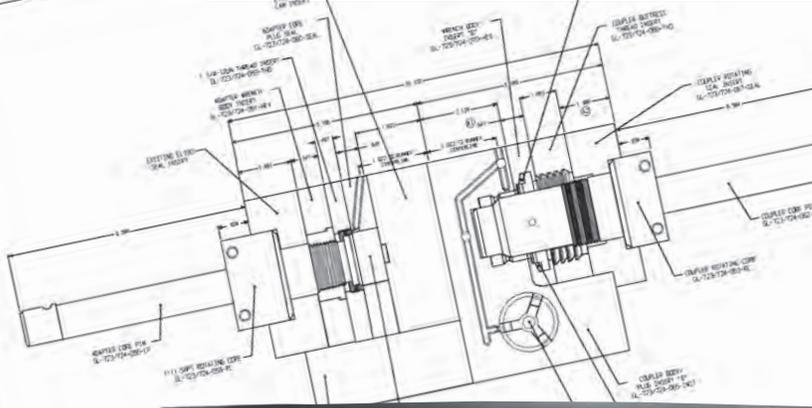
Unlimited Year Round Uses

- ▶ Garage
- ▶ Shop
- ▶ Home
- ▶ Lawn
- ▶ Farm
- ▶ RV





**From Concept and Design...
...to Completed Project,
Custom products can be manufactured
to meet your specific needs.**



**C
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- State-of-the-Art
—Plastic Production Technology
- Press Sizes 40-450 tons
—Fully Automated Robotics
- Design & Development Assistance
- Computer-aided Design (Auto CAD)



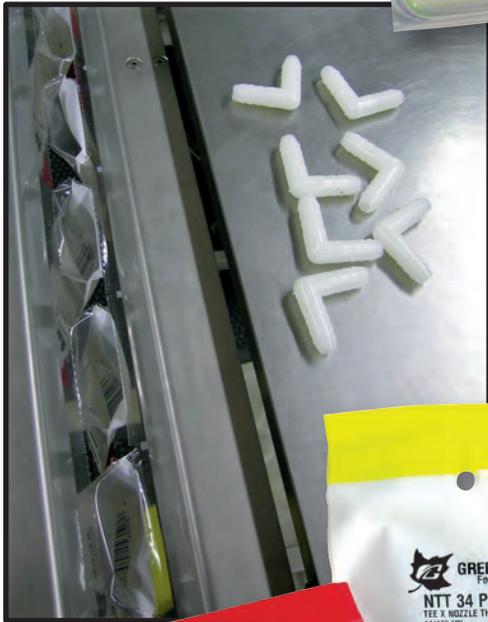


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**4ft to 20ft
Options**



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- **4ft. to 20 ft. Options**
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Peg Hangers & Bin Tags





Maximum and Minimum Continuous Use Temperature

Maximum continuous use temperature for a material is typically derived from a testing procedure developed by Underwriters Laboratories, Inc. The UL temperature index is reported for three different categories: electrical, mechanical with impact, and mechanical without impact. The value for each category represents the temperature at which specific properties will decrease to 1/2 of their original values after 60,000 hours of exposure.

Minimum continuous use temperature for a material must be based on the property requirements of the end use product. Properties such as: Tensile Strength, Elongation at Break, and Yield Strength are published down to -40°F in some cases.

We have taken the above information into consideration and developed the following guidelines for use with Green Leaf, Inc® Proprietary fittings (not including GatorLock® Cam Lock Couplings and Valves):

Nylon 6/6 Fittings:	167°F—32°F @ 75psi
Polypropylene Fittings:	140°F—32°F @ 75psi

These guidelines should not be used as specific limits or used alone to determine suitability for end use. It is impossible for Green Leaf, Inc® to anticipate all factors that can influence the maximum and minimum continuous use temperature. Therefore, Green Leaf, Inc® can make no guarantee of results and can assume no liability in connection with the use of this information. Confirmation of the validity of this information and the suitability of our products for any specific end use should be attained independently.

Green Leaf, Inc®
Engineering Department



Guide* For Chemical Resistance

*These ratings have been developed from technical publications, material suppliers and laboratory tests, and are presented for your evaluation and not as a guarantee.

- Failure, improper selection, or improper use of the products and / or systems referred to and described herein or related items can cause death, personal injury or property damage.
- This document and other information provides product and / or system options for further investigation by users having technical expertise.
- It is important that you analyze all aspects of your application and review the information concerning the product or system.
- Due to the variety of operating conditions and applications for these products or systems, the user, through his or her own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements are met.
- The materials described and referred to herein are subject to change at any time without notice.
- Unless otherwise stated, all recommendations are based on room temperature (72° F) exposure. Compatibility results may deviate from these recommendations at elevated temperatures. Recommendations are based on presence of listed chemical only.
- Mixtures containing more than one chemical can greatly affect chemical compatibility.
- Polypropylene products and components should not be used with low flash point chemicals, regardless of chemical compatibility results.

RATING CODES (A) Excellent (B) Good (C) Fair (X) Unsuitable () Insufficient Data	ELASTOMERS				METALS				PLASTICS		
	BUNA N (NITRILE)	EPDM	NEOPRENE®	VITON®/FLUOROELASTOMER	STAINLESS STEEL (302-305, 630)	STAINLESS STEEL (316)	STAINLESS STEEL (403-416)	ALUMINUM	NYLON	POLYPROPYLENE* (PPR)	TEFLON® (TFE)
A											
ACETATE SOLVENTS	X	X	X	X	A	A		B	B	X	A
ACETIC ACID	C	C	X	X	B	A		B	X	B	A
ACETIC ACID 95%					B	X				A	
ACETONE	X	C	X	X	C	A	A	A	A	A	A
ALCOHOL	B	X	X	X	A	A	A	B	B	X	A
ALUM	C	B	B	B	X	C	X		C	A	A
ALUMINUM CHLORIDE	X	B	B	B	X	C		B	B	A	A
AMMONIA	X	C	A	X					A		A
AMMONIA-AQUEOUS 30%	X	B			B	A				A	
AMMONIA, ANHYDROUS	C		A	X	A	A		B			
AMMONIUM, CHLORIDE	X		B	B	X	B	C	C	B	A	A
AMMONIUM DIHYDROGEN PHOSPHATE										A	
AMMONIUM HYDROXIDE	C	B	C	X	A	A	A	C	C	A	A
AMMONIUM SULFATE	X		B	B	B	B	C	B	B	A	A
B											
BARIUM CHLORIDE	B	X	A	B	A	B		X	B	A	A
BARIUM FLUORIDE	X	X	B	C					C	X	A
BARIUM NITRATE	B	B	A	B	B	B		B	B	A	A
BARIUM SULFATE	X	C	B	B	C	B		X		A	A
BENZENE	X		C	B	A	A	C	B	B	X	A
BENZOIC ACID	X	C	X	C	C	C		B	X	A	A
BORIC ACID	X	C	C	C	C	B	C	B	X	A	A
BRAKE FLUID	B	A	B	X					B	X	A
BUTYL ALCOHOL	X	X	X	A		A			B	A	A



CHEMICAL RESISTANCE CHART

RATING CODES (A) Excellent (B) Good (C) Fair (X) Unsuitable () Insufficient Data	ELASTOMERS				METALS				PLASTICS		
	BUNA N (NITRILE)	EPDM	NEOPRENE®	VITON®/FLUOROELASTOMER	STAINLESS STEEL (302-305, 630)	STAINLESS STEEL (316)	STAINLESS STEEL (403-416)	ALUMINUM	NYLON	POLYPROPYLENE* (PPR)	TEFLON® (TFE)
C											
CALCIUM BISULFITE	B	B	B	C	C	C	X	C	B	A	A
CALCIUM CHLORIDE	B	B	B	X	C	B		C	B	A	A
CALCIUM HYDROXIDE	B	B	X	X	C	A		C	B	A	A
CALCIUM HYDROXIDE 30%, BOILING					X	C				A	
CALCIUM HYPOCHLORITE, 5%, 70°			C	A	C	B		C		A	
CARBON BISULFIDE	A	X	X	B		B		A	B	X	A
CARBON DISULFIDE	X	X	X	B	A	C	B	C	B	X	A
CARBON TETRACHLORIDE	X	X	X	B	A	B	A	X	B	X	A
CAUSTIC LIQUID	B	B		A						A	
CAUSTIC SODA, ALL CONC., 72° & 140°	B	C	C	X	A	A			B	C	A
CHLORINATED SOLVENTS	X	X	X	B					C		A
CHLORINATED WATER, SATURATE	C		B	B	B	C			C	B	A
CHLORINE	X	X	X	X	X	X			C	X	A
CHLORINE TRIFLUORIDE	X	X	X	C				X	X	X	A
CHLOROACETIC ACID	X	C	X	X	B	X			X	A	A
CHROMIC ACID	X	C	X	B	X	C	C	C	X	B	A
CHROMIC ACID, 10%, 70° F			X					C		A	
CITRIC ACID	X	C	C	C	C	A	C	C	X	A	A
CITRIC ACID, HOT, CONC.					X	X				A	
COPPER SULFATE	X	B	B	B	C	A	A	X		A	A
CORN OIL	A	B	X	X		A			A	A	A
CYCLOHEXANE	C	X	X	A	A	A		A		X	A
D											
DETERGENT SOLUTIONS	C	C	C	C	A	A		A	A	B	A
E											
ETHYL ACETATE	X	X	X	X	B	B		B	B	A	A
ETHYL ALCOHOL	A		A	A		A				A	
ETHYLCELLULOSE	X	X	X	C				B	B	C	A
ETHYL CHLORIDE	X	X	X	C	A	A		X	B	X	A
ETHYLENE GLYCOL	A	A	B	A	A	A	A	A	B	C	A
F											
FERRIC CHLORIDE	X	X	B	C	X	X	X	X	B	A	A
FERRIC SULFATE	X	B	B	B	B	A	A	X	B	A	C
FERROUS CHLORIDE	X	B	B	B	X	X		X	B	A	A
FERROUS SULFATE	X	B	B	B	C	C		X	B	A	A
FLUORINE	X	X	X	X	A	B		X	X	X	X
FORMALDEHYDE	C	B	X	B	A	A	A	A	C	A	A



RATING CODES (A) Excellent (B) Good (C) Fair (X) Unsuitable () Insufficient Data	ELASTOMERS				METALS				PLASTICS		
	BUNA N (NITRILE)	EPDM	NEOPRENE®	VITON®/FLUOROELASTOMER	STAINLESS STEEL (302-305, 630)	STAINLESS STEEL (316)	STAINLESS STEEL (403-416)	ALUMINUM	NYLON	POLYPROPYLENE* (PPR)	TEFLON® (TFE)
CHEMICAL NAME											
FORMALDEHYDE, 40%			A		A	B				A	
FREON	X	B	X	B	B	A	A	X	X	B	A
FRUIT JUICES	A	B	X	B		A		B	X	A	A
FUEL OIL, NORMAL	C	X	X	A	A	A		A	A	A	A
G											
GASOLINE	C	X	X	B	A	B		A	A	X	A
GLYCERINE OR GLYCEROL	X	X	B	B	A	A	A	A	B	A	A
H											
HYDRAULIC OILS	C	X	A	C	A			A		A	
HYDROCARBONS, PURE		X		B						A	
HYDROCHLORIC ACID	C	B	B	C	X	X	X	X	X	A	A
HYDROCHLORIC ACID, 20%	C		A	A	X	X		X		A	
HYDROFLUORIC ACID	X	C	C	X	X	X	X	X	X	A	A
HYDROFLUORIC ACID, 50%	C		C	A	X	X		X		A	
HYDROFLUOROSILICIC ACID	X	C	C	X	X	X		X	X	A	B
HYDROGEN PEROXIDE	A	X	X	X	C	A	A	A	X	X	A
HYDROGEN PEROXIDE, 50%		A		A	C			A		A	
HYDROGEN SULFIDE	B	B	X	C	X	B	X	X	C	A	A
I											
IODINE	X	X	X	X	C	X		X		C	A
ISOPAR G		X		A						A	
ISOPROPYL ALCOHOL	B		A	A	A	B				A	
L											
LACQUER SOLVENTS	X	X	X	B	A	A	A	A	B	X	A
LIME, 30%					A	A		C		A	
LUBRICATING OIL	A	B	B	A	A	A		A	A	X	A
M											
MAGNESIUM CHLORIDE	X	B	B	C	C	A	C	X	B	A	A
MAGNESIUM HYDROXIDE	X	C	C	X	C	A	A	X	B	A	A
MAGNESIUM SULFIDE	X	C	B	X					B	A	A
MANGANESE CHLORIDE	X	C	B	X	X	X			B	A	A
MANGANESE SULFATE	X	C	B	X					B	A	A
MERCURIC SULFATE	X	C	B	X					B	A	A
METHYL CHLORIDE	C	X	X	X	A	A		X	B	X	A
METHYL ETHYL KETONE	X	A	X	X	A	A		A		A	
MINERAL OILS	C	X	B	B	A	A			A	B	A
MUSTARD	C	B	X	C	A	A		B	A	A	A



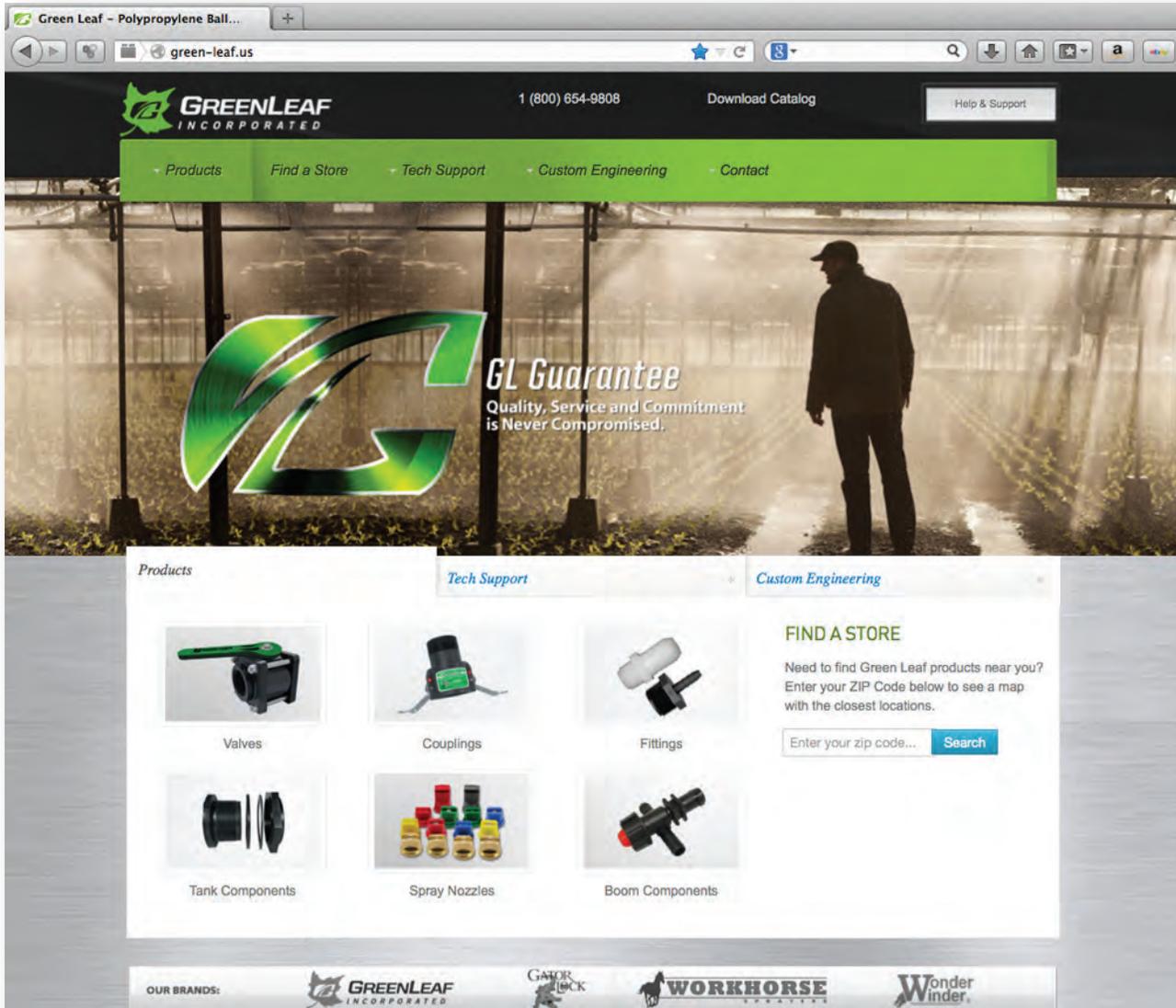
RATING CODES (A) Excellent (B) Good (C) Fair (X) Unsuitable () Insufficient Data	ELASTOMERS				METALS				PLASTICS		
	BUNA N (NITRILE)	EPDM	NEOPRENE®	VITON®/FLUOROELASTOMER	STAINLESS STEEL (302-305, 630)	STAINLESS STEEL (316)	STAINLESS STEEL (403-416)	ALUMINUM	NYLON	POLYPROPYLENE* (PPR)	TEFLON® (TFE)
CHEMICAL NAME											
N											
NICKEL CHLORIDE	X	C	C	X	C	X	X	X	B	A	A
NICKEL SULFATE	X	C	C	X	C	B	X	X	B	A	A
NITRIC ACID	X	X	X	X	C	B	C	X	X	X	A
NITRIC ACID, 20%	X	B	X	B	A	A		X		A	
NITRIC OXIDE	X	C	C	X					C	X	A
O											
OIL - NO. 1 ASTM	B	X	B	A					A	X	A
OIL - NO. 3 ASTM	B	X	B	A					A	X	A
P											
PHOSPHORIC ACID	X	C	C	C	A			X	X	A	A
PHOSPHORIC ACID, 10%					A	B		X		A	
PHOTO CHEMICALS - STANDARD TYPES										A	
PHOTOGRAPHIC - DEVELOPERS	X	B	C	C	C	A		C	B	A	A
PHOTOGRAPHIC - FIXER	C	A	B	B	C	B				A	
POTASSIUM BICARBONATE	A		A	A	B	C		C		A	
POTASSIUM CARBONATE	C	B	B	B	C	C		C	C	A	A
POTASSIUM CHLORATE	X	B	B	C	A	C		B	B	A	A
POTASSIUM CHLORIDE	X	B	B	C	C	B	C	B	B	A	A
POTASSIUM DICHROMATE, 40%					A	A		A		A	
POTASSIUM HYDROXIDE	C	B	X	X	B	B	A	X	B	B	A
POTASSIUM NITRATE	X	B	B	C	A	C		B	B	A	A
POTASSIUM SULFATE	X	B	B	C	C	B	A	A	B	A	A
PROPYLENE GLYCOL	A	A	C	A	C	B		A	B	C	A
S											
SALINE SOLUTION - ALL CONC.										A	
SILICONE OILS & GREASES	X	C	C	B	B	A			A	A	A
SODIUM BICARBONATE	X	B	B	X	A	A	A	A	B	A	A
SODIUM BISULFATE	X	B	C	B	X	A	X	X	B	A	A
SODIUM CARBONATE	X	X	B	X	C	A		C	B	A	A
SODIUM CHLORATE	X	B	B	B	C	C		B	B	A	A
SODIUM CYANIDE	X	B	B	B	C	A	A	X	B	A	A
SODIUM HYDROSULFITE	X	B	B	B					C	A	A
SODIUM HYDROXIDE	B	A	B	A	C	X	A	X	C	A	A
SODIUM HYDROXIDE, 40-80%, 175°F	A		A		X	C		X		A	
SODIUM HYPOCHLORITE	X	B	X	B	X	X	X	X	C	B	A
SODIUM HYPOCHLORITE, 5%		A		A	B	A		X		B	
SODIUM IODIDE	C	B	B	X					B	C	A



CHEMICAL RESISTANCE CHART

RATING CODES (A) Excellent (B) Good (C) Fair (X) Unsuitable () Insufficient Data	ELASTOMERS				METALS				PLASTICS		
	BUNA N (NITRILE)	EPDM	NEOPRENE®	VITON®/FLUOROELASTOMER	STAINLESS STEEL (302-305, 630)	STAINLESS STEEL (316)	STAINLESS STEEL (403-416)	ALUMINUM	NYLON	POLYPROPYLENE* (PPR)	TEFLON® (TFE)
SODIUM NITRATE	X	B	C	B	C	C	A	A	B	A	A
SODIUM PEROXIDE	X	X	X	X	A	A	A	X	X	X	A
SODIUM PHOSPHATE	X	B	B	B	B	B		X	B	A	A
SODIUM SULFATE	X	B	B	B	A	B	A	B	B	A	A
SODIUM SULFIDE	X	B	B	B	X	B	A	X	B	A	A
SODIUM SULFITE	X	B	B	B	A	A			B	A	A
SODIUM THIOSULFATE	X	B	B	B	B	A	A	B	B	A	A
SOFT DRINK SYRUPS										A	
SOLVENT - TONER KEROSENE BASE										A	
SOYBEAN OIL	A	B	X	A	A	A			A	B	A
STANNIC CHLORIDE	X	B	C	B	X	X		X	B	A	A
STANNOUS CHLORIDE	X	B	B	B	X				B	A	A
SULFUR CHLORIDE	X	X	X	A	C	X	X	X	C	B	A
SULFUR DIOXIDE	X	X	X	A	A	B		X	C	B	A
SULFUR TRIOXIDE	X	X	X	A	C	C		X			A
SULFURIC ACID	X	C	X	B	C	B		X	X	C	A
SULFUROUS ACID	X	C	X	C	C	C	X	X	X	A	A
T											
TOLUENE OR TOLUOL	X	X	X	X	A	A	C	A		X	A
TRIBUTYL PHOSPHATE	X	X	X	X	A	A			B	B	A
TRICHLOROETHYLENE	X	X	X	C	A	C	A	X	C	X	A
TURPENTINE	C	X	X	B	C	A	C	A	C	X	A
V											
VEGETABLE OILS	B	B	C	A	C	C	C	A	A	X	A
VINEGAR	C	C	C	C	C	B	C	X	C	A	A
W											
WATER, DEIONIZED	C	A	C	A	A	A			B	A	A
WATER, FRESH	C	A	B	A	A	A	A	A	B	A	A
WATER, GLYCOL	C	B	B	B					B	A	A
WETTING AGENTS		A		A						A	
Z											
ZINC CHLORIDE	X	B	B	B	X	X	X	X	B	A	A
ZINC SULFATE	X	B	B	B	C	A	C	X	B	A	A

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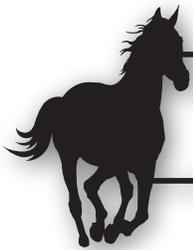
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